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ABSTRACT

This study, conducted through the Postsecondary Quick Information System (PEQIS) of the National Center for Education Statistics, was designed to provide current national estimates of the prevalence and characteristics of remedial courses and enrollments in degree-granting 2-year and 4-year postsecondary institutions that enrolled freshmen in fall 2000 and to report changes in remediation from fall 1995. Remedial education courses were defined as courses in reading, writing, or mathematics for college-level students lacking the skills to perform work at the level required by the institution. The study examined two issues not covered in the 1995 survey: types of technology used in the delivery of remedial education through distance education courses and the use of computers as a hands-on instructional tool for on-campus remedial education. Data are presented by institution type. In fall 2000, about three-quarters (76%) of the Title IV degree-granting 2-year and 4-year institutions that enrolled freshmen offered at least one remedial reading, writing, or mathematics course. A higher proportion offered remedial courses in mathematics and writing than in reading. Remedial course offering were generally limited to a small number of courses; the average number of different remedial courses was 2.0 for reading and writing and 2.5 for mathematics. Public 2-year colleges were more likely than other institutions to provide remedial education, and they offered a greater number of remedial courses. In fall 2000, 28% of entering freshmen enrolled in one or more redial reading, writing, or mathematics courses, with the largest proportion enrolling in remedial mathematics. At that time 13% of the institutions offered remedial courses through distance education, compared with 3% in 1995. Appendixes discuss the methodology and contain standard error tables and the questionnaires for 1995 and 2000. (Contains 11 figures, 12 tables, and 26 references.) (SLD)



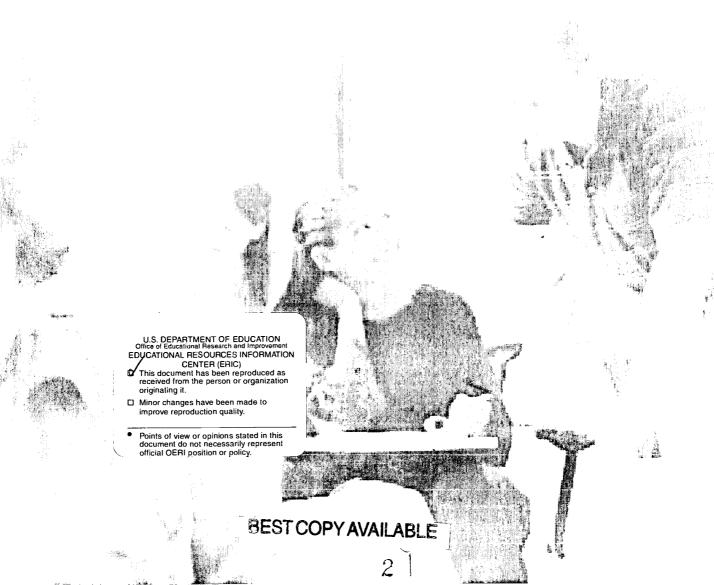
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Statistical Analysis Report







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Statistical Analysis Report

November 2003

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EXECUTIVE SUMMARY

This study was conducted through the National Education **Statistics** Center for Quick Information Postsecondary Education It was designed to provide System (PEQIS). current national estimates of the prevalence and remedial characteristics of courses enrollments in degree-granting 2-year and 4-year postsecondary institutions that enrolled freshmen in fall 2000, and to report changes in remediation from fall 1995. For the purposes of this study, remedial education courses were defined as courses in reading, writing, or mathematics for college-level students lacking those skills necessary to perform college-level work at the level required by the institution.

Key Findings

This report presents data from the 2000 PEQIS survey and comparisons with the 1995 PEQIS survey on remedial course offerings, student participation in remedial programs, institutional structure of remedial programs, and the delivery of remedial courses through distance education. This study examined two issues not covered in the 1995 survey: types of technology used in the delivery of remedial education through distance education courses, and the use of computers as a hands-on instructional tool for on-campus remedial education. The data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4-year.²

Remedial Course Offerings

In fall 1995 and 2000, institutions provided information about their remedial course offerings in the areas of greatest need for underprepared students—reading, writing, and mathematics³ (Merisotis and Phipps 2000).

In fall 2000, about three-fourths (76 percent) of the Title IV degree-granting 2- and 4-year institutions that enrolled freshmen offered at least one remedial reading, writing, or mathematics course (table 1).4 A higher proportion of institutions offered remedial courses mathematics (71 percent) and writing (68 percent) than in reading (56 percent). Remedial course offerings were generally limited to a small number of courses; the average (mean) number of different remedial courses offered by an institution was 2.0 for reading, 2.0 for writing, and 2.5 for mathematics (table 2).

Public 2-year colleges were more likely than other types of institutions to provide remedial education. In fall 2000, public 2-year institutions (98 percent) were more likely than other types of institutions (59 to 80 percent) to offer one or more college-level remedial reading, writing, or mathematics courses (table 1), and they offered a greater number of different remedial courses, on average (table 2).

Public 4-year institutions were also significant providers of remedial education in fall 2000.



¹ Respondents were asked to include any courses meeting the definition, regardless of the course name. Institutions may use other names for remedial courses, including "developmental," "compensatory," or "basic skills."

² Differences by institutional type are reported only when they are statistically significant.

³ Institutions were instructed on the front of the questionnaire to respond for their regular undergraduate programs, except for question 13, which asked about services/courses to business and industry. Thus, remedial courses offered to business and industry were not considered in the institution's reporting of remedial course offerings in other sections of the questionnaire.

⁴ All analyses in this report are based on institutions that enrolled freshmen at the time of the survey.

Compared with private 4-year institutions, public 4-year institutions were more likely to offer one or more remedial reading, writing, or mathematics courses (80 vs. 59 percent) (table 1), and they offered a greater number of different remedial reading, writing, and mathematics courses, on average (table 2).

Remedial education services or courses were offered to local business and industry by 21 percent of the institutions enrolling freshmen in fall 2000 (figure 7 and table 3).⁵ Among institutions that provided remedial services to business and industry, a higher proportion provided remediation in mathematics (93 percent) than in reading (81 percent). Public 2-year colleges were more likely than public or private 4-year institutions to offer remedial services or courses to local business and industry (56 percent vs. 8 and 3 percent, respectively) (figure 7).

Between 1995 and 2000, no differences were detected in the overall proportion of institutions that offered at least one college-level remedial reading, writing, or mathematics course, although the proportion of institutions that offered remedial writing courses declined from 71 percent to 68 percent (table 1). No differences were detected in the average number of different remedial reading, writing, or mathematics courses offered during this time period (table 2).

Participation in Remedial Courses

In fall 2000, 28 percent of entering freshmen enrolled in one or more remedial reading, writing, or mathematics courses (table 4). The proportion of freshmen who enrolled in remedial courses was larger for mathematics than writing (22 vs. 14 percent), and it was smallest for reading (11 percent). The time that students spent in remediation was generally limited to 1 year or less; in fall 2000, a majority (60 percent) of

5 Remedial courses offered to local business and industry do not include courses in the institutions' regular undergraduate programs. institutions that offered remedial courses indicated that the average time a student spent in remediation was less than 1 year, about one-third (35 percent) indicated that the average time was 1 year, and 5 percent reported an average time of more than 1 year (table 5).

Public 2-year colleges enrolled more of their entering freshmen in remedial courses (table 4), and they reported longer average time periods that students spent in remediation (table 5), compared with other types of institutions in fall 2000. For example, 42 percent of freshmen at public 2-year colleges and 12 to 24 percent of freshmen at other types of institutions enrolled in at least one remedial reading, writing, or mathematics course. Compared with private 4-year institutions, public 4-year institutions also enrolled a higher proportion of freshmen in one or more remedial reading, writing, or mathematics courses (table 4), and they reported longer average time periods that students spent in remediation (table 5).

Between 1995 and 2000, no differences were detected in the proportion of entering freshmen who enrolled in at least one remedial reading, writing, or mathematics course (table 4). Data on the reported time spent in remediation, however, suggest an increase in the average length of time that students spent in remedial education courses. For example, between 1995 and 2000, the proportion of institutions that reported an average of 1 year of remediation for students increased from 28 percent to 35 percent, while the proportion indicating an average of less than 1 year of remediation for students decreased from 67 percent to 60 percent (table 5).



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⁶ Students may also choose to limit the time they spend in remediation in order to qualify for federal student aid. Based on federal policy, students may not be considered eligible for federal financial aid if they are enrolled solely in remedial programs or if remedial coursework exceeds one academic year (Higher Education Act of 1965, as amended).

Institutional Structure of Remedial Programs

Institutions were asked about the following strategies for organizing and delivering remedial programs: the approach for selecting students who need remedial coursework, whether enrollment in remedial courses is mandatory or optional for students who were determined to need remediation, the kinds of restrictions placed on remedial coursetaking, the types of credit awarded for remedial coursework, and the primary provider of remedial courses at the institution.

In fall 2000, the most common approach to select students for remedial coursework was to give placement tests to all entering students; 57 to 61 percent of institutions used this approach for remedial reading, writing, and mathematics courses (table 6). Institutions also tended to have mandatory placement policies for students who were determined to need remediation (table 7). In fall 2000, 75 to 82 percent of the institutions required students who were determined to need remediation to enroll in remedial reading, writing, or mathematics courses.

Most institutions have some kind of restrictions on the extent to which remedial students can participate in regular courses and the type of credit awarded for remedial coursework. In fall 2000, 82 to 88 percent of institutions placed some restrictions on the regular courses that students could take while they were enrolled in remedial reading, writing, or mathematics courses (table 10). In addition, the most frequent type of credit given for remedial courses was institutional credit (e.g., counts toward financial aid, campus housing, or full-time student status, but does not count toward degree completion); 73 to 78 percent of the institutions most frequently gave institutional credit for remedial reading, writing, or mathematics coursework, 10 to 14 percent most often gave elective degree credit, and 2 to 4 percent most often gave subject degree credit (table 8).

In fall 2000, about one-fourth (26 percent) of the institutions reported that there was a limit on the length of time a student may take remedial courses at their institution (table 9). Time limits on remediation were set by institutional policy in 71 percent of these institutions, and by state policy or law in 24 percent of institutions with such limits. Finally, institutions tended to rely on their traditional academic departments as the primary providers of remedial education in fall 2000; a majority of institutions cited their traditional academic departments as the most frequent providers of remedial writing (70 percent), mathematics (72 percent), and reading courses (57 percent) (table 11).

Between 1995 and 2000, institutions tended to move toward more restrictive remedial policies on student participation in regular coursework during remediation. For each subject area, there was an increase in the proportion of institutions that had some restrictions on the regular courses that students could take while they were enrolled in remedial courses (table 10). In addition, between 1995 and 2000, there was an increase in the proportion of institutions that required students who needed remedial mathematics to participate in such courses (from 75 to 81 percent) (table 7).

Use of Advanced Technology in Remedial Education

The institutional strategies for delivering remedial education courses examined in this report include the use of advanced technology in the delivery of remedial courses through distance education and on-campus instruction. In fall 2000, 13 percent of the institutions offered remedial courses through distance education, compared to 3 percent in 1995 (figures 9 and 10), and about one-third (31 to 35 percent) of the institutions reported that computers were used frequently by students as a hands-on instructional tool for on-campus remedial reading, writing, and mathematics courses (table 12).



Public 2-year colleges were the primary users of advanced technology in remedial education. In fall 2000, public 2-year colleges were more likely than other types of institutions to offer their remedial courses through distance education (25 percent vs. 8 percent or less) (figure 9). Public

2-year colleges were also more likely than public or private 4-year institutions to report that they frequently used computers as a hands-on instructional tool for their on-campus remedial reading, writing, and mathematics courses (table 12).



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1. INTRODUCTION

The place of remediation in postsecondary curricula is a contentious issue and the focus of ongoing debate in policy-related literature and the media.1 Central to this debate is the question of whether remedial course offerings are appropriate at the college level, and whether those courses should be offered at all colleges or be restricted to 2-year colleges (Ignash 1997; Levin 2001; McCabe 2000; Roueche and Roueche 1999; Shults 2000). In recent years, concerns about the costs of remedial course offerings and the academic standards at 4-year institutions have become the focus of debate. These concerns have reportedly led some state education departments to take steps to try to reduce or eliminate remedial course offerings at 4-year institutions and to restrict the use of public funds for such courses (Hoyt and Sorenson 2001; Kozeracki 2002).

Research on postsecondary remediation has been diverse, ranging from case studies to national surveys. Between 1984 and 1995, the National Center for Education Statistics (NCES) conducted three national studies to provide data on the prevalence and characteristics of postsecondary remediation.² Those NCES surveys are the most

widely cited sources of national data on remedial education at postsecondary institutions.³ This NCES survey, conducted in fall 2000, was designed to provide new national data on postsecondary remediation and changes from 1995. While several definitions exist, the NCES studies provide a working definition of postsecondary remedial education as courses in reading, writing, or mathematics for college-level students lacking those skills necessary to perform college-level work at the level required by the institution.⁴

Debate on Remedial Education

Proponents generally agree that remedial education is necessary to provide expanded



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¹ According to Saxon and Boylan (2001), remedial education had been the topic of 48 newspaper articles in the nation's largest newspapers between 1995 and 1999. In addition, remedial issues have been debated in policy-related literature published by various national organizations such as the American Association of Community Colleges (e.g., Shults 2000) and state organizations such as the California League for Innovation in the Community College (Saxon and Boylan 2001).

² The data from the 1984 study are not comparable to the data from the later NCES studies because of changes in definitions and analyses. The data for the 1989 and 1995 studies as presented by Mansfield and Farris (1991) and Lewis and Farris (1996) are not comparable to the data for the current (2000) study because of a change in the way that NCES categorizes postsecondary institutions, and the inclusion of institutions in Puerto Rico in the earlier studies. The data for the 1989 and 1995 surveys represent 2-year and 4-year higher education institutions that enroll freshmen. At the time those surveys were conducted, NCES defined higher education institutions as institutions that are accredited at the college level by an agency recognized by the Secretary of the U.S. Department of Education (ED). Higher education institutions were a subset of all postsecondary institutions. The data for the 2000

survey represent 2-year and 4-year Title IV-eligible, degree-granting institutions that enroll freshmen. This change was necessary because ED no longer makes a distinction between higher education institutions and other postsecondary institutions that are eligible to participate in federal Title IV financial aid programs, and thus NCES no longer categorizes institutions as higher education institutions. In order to make comparisons between the 1995 and 2000 studies for presentation in this report, the data from the 1995 study were reanalyzed with the definition of eligible institutions changed to match the definition for the 2000 study as closely as possible. The sample for the 2000 survey and comparisons between the 1995 and 2000 surveys are discussed in more detail in the survey methodology section presented in appendix A.

³ NCES collects limited data on remedial education as part of other large-scale studies. These studies are not comparable to the PEQIS studies in methodologies and populations of interest. For example, the annual Integrated Postsecondary Education Data System (IPEDS) "Institutional Characteristics" survey provides data annually on the number of institutions that offer remedial services, and the "Postsecondary Education Transcript Study" (PETS) of the High School and Beyond Survey (HS&B) provides student-level data on remedial education. Postsecondary transcript data were also collected as part of three other surveys—the National Longitudinal Study (NLS) of the High School Class of 1972, the National Education Longitudinal Study of 1988, and the Undergraduate Transcript Study (i.e., the first follow up of the Baccalaureate and Beyond (B&B) for the 1992–93 cohort of bachelor's degree recipients).

⁴ Respondents were asked to include any courses meeting the definition, regardless of the course name. Other names for remedial education include "developmental education," "compensatory education," and "basic skills."

educational opportunities for entering postsecondary students who lack the appropriate academic skills, although there is considerable disagreement among educators, policymakers, and the public over whether remediation should be provided at all postsecondary levels or whether it should be restricted to 2-year institutions (Crowe 1998; Ignash 1997; McCabe 2000; Phelan 2000; Roueche and Roueche 1999; Spann 2000). Some argue that remedial course offerings inappropriate for the curricula of 4-year institutions, and they suggest that the remedial needs of underprepared students might best be served at community colleges because of the mission of those colleges to provide access to postsecondary education (Ignash Advocates for the provision of remedial education at all institutional levels argue, however, that shifting remedial education solely to 2-year colleges could drain these institutions' financial and human resources, reduce educational opportunities for remedial students, and create revenue problems for 4-year colleges that cannot afford the enrollment loss (Roueche and Roueche 1999).

Much of the recent opposition to postsecondary remediation comes from cost concerns (Hoyt and Sorenson 2001), although some proponents argue that remedial education accounts for a small fraction of the current fund revenue of public colleges (Brenneman and Haarlow 1998; Saxon and Boylan 2001). Critics contend that remedial education diverts human and financial resources from other academic priorities (Kozeracki 2002), and uses public funds to pay a second time for training in academic skills that students should have acquired in high school (Hoyt and Sorenson 2001). Based on these arguments, some educators and policymakers suggest alternatives such as shifting the cost of postsecondary remediation to high schools (Ignash 1997) and improving student preparation for college through increased collaboration between colleges and high schools (Crowe 1998).

Recent media reports indicate a tightening of remedial policies in some states, including policies aimed at reducing or eliminating remedial course offerings at public 4-year postsecondary

institutions and shifting the responsibility for postsecondary remediation to community colleges or private colleges. For example, after a monitoring period of 3 years, the Board of Regents of the City University of New York (CUNY) approved its new remediation plan in 2002; this plan is aimed at raising admission standards for baccalaureate programs eliminating most remedial courses from the system's senior colleges, while continuing them in community colleges, immersion courses, and other programs (Hebel 2003a). Some states have also tightened existing policies, such as limitations on the time that students are permitted to spend in remediation and the use of public funds for remedial education. For example, in 1999, the California State University system implemented more restrictive time limits on remediation as part of its push to reduce the number of entering students who enroll in remedial courses to 10 percent by 2007 (Hebel 2003b).

Prevalence of Remedial Education

Research on the prevalence of postsecondary remedial education focuses on the extent to which institutions offer remedial courses and the extent to which students enroll in such courses. Past NCES surveys indicate that about three-fourths (74 percent) of higher education institutions offered remedial education courses in 1989, and 30 percent of freshmen enrolled in at least one remedial reading, writing, or mathematics course (Mansfield and Farris 1991).⁵ In fall 1995, 78 percent of higher education institutions offered remedial education courses, and 29 percent of freshmen enrolled in at least one remedial reading, writing, or mathematics course (Lewis and Farris 1996). The NCES studies also found that remediation at most institutions was typically



⁵ Because all postsecondary institutions do not test all entering freshmen and some do not label their remedial courses as such, the numbers of entering students who need remedial education and the number of remedial courses offered are probably higher than reported in studies that address prevalence. Additionally, the PEQIS studies asked for the percentage of entering freshmen enrolled in remedial courses, which may differ from the percentage of students who were determined to need remediation.

limited to one or two courses, and students generally spent 1 year or less in those courses.

Past NCES studies suggest that the primary providers of remedial education are public 2-year institutions (Mansfield and Farris 1991; Lewis and Compared to other types of Farris 1996). institutions in 1989 and 1995, public 2-year colleges were more likely to offer one or more remedial reading, writing, or mathematics courses, and they were more likely to offer remedial courses or services to local business and industry. Public 2-year colleges also offered more remedial courses, enrolled higher proportions of freshmen in remediation, and reported longer average time periods that students spend in remediation. In addition, the role of public 2-year institutions in offering remedial services to local business and industry is also consistent with the policies of those institutions to provide community services, adult learning, and workforce training and retraining (Phelan 2000).

Institutional Structure of Remedial Programs

Institutional strategies for structuring remedial programs include the ways in which remedial needs are determined and served, such as policies for the assessment and placement of students in remedial courses, and procedures for the delivery of those courses. Approaches may differ considerably, reflecting the missions and types of institutions, the types of students served, and the extent to which remedial education is integrated into college-level curricula and traditional academic departments (Perin 2002).

Accurate assessment of students' remedial needs has been an ongoing concern as changes in state legislation during the 1990s called for increased emphasis on the assessment of incoming students (Russell 1997), and as educators raised questions about the validity of placement tests (Berger 1997) and the lack of consensus on what constitutes college-level work across institutions (Merisotis and Phipps 2000). Critics of placement policies for remedial students also contend that

although most institutions have established the procedures assessment procedures, skills students' academic vary evaluating considerably across institutional missions and types (Merisotis and Phipps 2000). Past NCES studies suggest, for example, that while the most common approach to assessment or placement is to give all entering students placement tests to determine the need for remediation, these strategies are found more often at public 2-year colleges (Mansfield and Farris 1991; Lewis and Farris 1996).

Strategies for serving students' remedial needs reflect the extent to which remedial education is embedded or separate from the regular academic system.⁶ Potential strategies for institutions that take an integrative approach to serving students' remedial needs include mainstreaming remedial education (i.e., offering remedial courses through traditional academic departments) and organizing remedial courses as an integral part of collegelevel curricula. For example, to integrate remedial education into college-level curricula, institutions could permit students to simultaneously enroll in remedial and regular academic courses; they also could offer degree credit for remedial courses. In contrast, institutions seeking less integrative strategies could offer remedial courses through a separate remedial department or division, require underprepared students to complete a separate program of basic skills prior to any other collegelevel work, and offer only institutional credit for remedial coursework (e.g., credit that counts toward financial aid, campus housing, or full-time student status, but does not count toward degree completion).

Some educators and policymakers suggest that the integration of remedial education into traditional academic departments and college-level curricula could have positive influences on remedial students' attitudes and expectations (McCabe 2000), and it could provide opportunities for



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⁶ Some educators use the terms "mainstreaming" to describe the integration of remedial education into regular academic departments and "centralization" to describe the housing of remedial education in separate organizational units. In practice, institutions may use a combination of approaches (Perin 2002).

underprepared students to interact with their higher achieving peers and participate more fully in college life (Perin 2002). Critics of integration contend, however, that mixing prepared and underprepared students might result in a "watering down" of regular courses and prove to be a disservice to both types of students (Roueche and Roueche 1999). Others argue that the level of cross-disciplinary communication among faculty teaching remedial students might influence student performance regardless of whether remedial programs are embedded or separate from the regular academic system (Boylan, Bliss, and Bonham 1997; Boylan 2002).

Past NCES studies (Mansfield and Farris 1991; Lewis and Farris 1996) suggest that although remedial education was most often provided by the institutions' traditional academic departments, institutions tended to organize remedial education as distinct from their regular college curricula. For example, most institutions placed some kind of restrictions on the extent to which students could participate in regular courses while they were taking remedial courses, and most did not award degree credit for remedial courses. The NCES studies on remediation also found that while institutions generally made it mandatory for students who need remedial education to enroll in such courses, most did not impose limits on the length of time that a student could spend in remediation.7

About This Study

This NCES survey was designed to investigate the prevalence and nature of remedial education in postsecondary institutions in fall 2000, and to examine changes from fall 1995. The current study allows for comparisons with the 1995 data because it revisits almost all of the issues addressed in that study. This study also examines

⁷ Students may also choose to limit the time they spend in remediation in order to qualify for federal student aid. Based on federal policy, students may not be considered eligible for federal financial aid if they are enrolled solely in remedial programs or if remedial coursework exceeds one academic year (Higher Education Act of 1965, as amended).

additional issues—the types of technology used in the delivery of remedial education through distance education courses, and the use of computers as a hands-on instructional tool for oncampus remedial education. Specifically, this report addresses the following questions about remedial education at postsecondary institutions:

- How many and what kinds of postsecondary institutions offered remedial courses in the fall of 2000? How many and what types of courses were offered? What are the reasons for not offering remedial courses? What changes have occurred from 1995?
- How many and what kinds of postsecondary institutions offered remedial courses to local business and industry in the fall of 2000? What types of courses were offered? What changes have occurred from 1995?
- What proportion of entering freshmen were enrolled in remedial courses in fall 2000?
 What was the average time spent in remedial courses? What changes have occurred from 1995?
- How did institutions select students for remedial coursework in fall 2000? How many institutions required students who needed remediation to enroll in remedial courses? What types of credit could students earn from remedial courses? What kinds of restrictions were placed on remedial coursetaking? How did various institutional types differ in the provision of remedial education? What changes have occurred from 1995?
- How many and what kinds of institutions offered remedial education through distance education in fall 2000, and what changes have occurred from 1995? What kinds of technology did institutions use to deliver remedial education through distance education in 2000? To what extent did institutions use computers as a hands-on instructional tool for on-campus remedial courses in 2000?



Study Methodology and Analyses

The study was conducted through the NCES Postsecondary Education Quick Information The PEQIS is designed to System (PEQIS). collect small amounts of policy-relevant data on a quick turnaround basis from a previously recruited, nationally representative sample of 2year and 4-year postsecondary institutions. The survey was mailed to PEQIS survey coordinators, with the request that the person at the institution who was most knowledgeable about the institution's remedial education courses complete questionnaire. Of the 1,242 eligible institutions, 1,186 completed questionnaires. The unweighted survey response rate was 95 percent, and the weighted response rate was 96 percent.

The questionnaire responses were weighted to produce national estimates that represent all Title IV-eligible, degree-granting institutions in the United States that enrolled freshmen. All comparative statements in this report have been tested for statistical significance using *t*-tests adjusted for multiple comparisons⁸ and are significant at the 0.05 level. However, not all statistically significant differences are reported. Throughout this report, some differences that appear large may not be statistically significant because of the large standard errors surrounding the estimates or the small size of the analysis sample.

The data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4-year, and differences by institutional type are reported only when they are statistically significant. Type was created from a combination of level (2-year, 4-year) and control (public, private). As defined by NCES, 2-year institutions are institutions at which the highest level of offering is at least 2 but less than 4 years (below the baccalaureate degree); 4-year institutions are

those at which the highest level of offering is 4 or more years (baccalaureate or higher degree).⁹

To retain comparability with the 1995 NCES study, the current study included 2-year and 4-year degree-granting institutions that enrolled freshman students and asked some questions about freshman students, even though remediation is not entirely a freshman phenomenon. Institutions were asked to provide information about their remedial programs if they provided any remedial reading, writing, or mathematics courses in fall 2000. 10

Organization of This Report

presents information about This report postsecondary remedial education in fall 2000 and changes from fall 1995. The discussion is divided into chapters that reflect the major topics addressed in the questionnaire. Chapter 2 describes remedial course offerings, including remedial courses offered to undergraduates and to local business and industry. Participation in remedial education is reported in chapter 3, including the average length of time students spent in remedial education. Chapter 4 describes the ways in which institutions structure their remedial programs, including the selection of entering students for remedial coursework, the requirement status of remedial courses, restrictions on remedial coursetaking, types of credit earned from remedial courses, and providers of remedial education at the institution. Chapter 5 reports on the use of advanced technology in remedial education, including the delivery of remedial education through distance education, technology use in distance education, and the use of computers as a hands-on instructional tool for on-campus The concluding chapter courses. remedial summarizes the findings of the study. A detailed

⁹ Definitions for level are from the data file documentation for the



⁸ See discussion of the Bonferroni adjustment in the methodology section, appendix A.

NCES Institutional Postsecondary Education Data System (IPEDS) Institutional Characteristics file. A detailed description of the institutional categories is provided in the methodology section, appendix A.

¹⁰The sample for the 2000 survey and comparisons between the 1995 and 2000 surveys are discussed in more detail in the survey methodology presented in appendix A.

discussion of the survey methodology (appendix A) and tables of standard errors for all data presented in this report (appendix B) are included as technical appendixes. The 1995 and 2000 PEQIS questionnaires are presented in appendix C.



2. REMEDIAL COURSE OFFERINGS

In fall 1995 and 2000, institutions that enrolled freshmen were asked about their remedial course offerings. The data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4-year. Institutions reported

- remedial course offerings for undergraduates in reading, writing, and mathematics, and in other academic subjects;
- the reasons for not offering remedial courses;
 and
- remedial education services or courses offered to local business and industry.

Remedial Course Offerings

Institutions indicated whether they offered any remedial reading, writing, or mathematics courses in fall 1995 and 2000.¹² Institutions that offered at least one such course were asked whether they offered remedial courses in each of the three subject areas and to report the number of courses offered in each area.

Remedial Course Offerings: Overall

In fall 2000, about three-fourths (76 percent) of institutions that enrolled freshmen offered at least one remedial reading, writing, or mathematics

course (table 1).¹³ Remediation was more likely to be offered by public 2-year colleges (98 percent) than all other institutional types, and it was more likely to be offered by public 4-year institutions (80 percent) than private 4-year institutions (59 percent).¹⁴

Overall, no difference was detected between 1995 and 2000 in the proportion of institutions that offered at least one remedial reading, writing, or mathematics course (table 1).

Remedial Course Offerings in Reading, Writing, and Mathematics

In fall 2000, institutions were more likely to offer at least one remedial course in mathematics and writing than in reading (table 1). Seventy-one percent of institutions offered remedial mathematics courses and 68 percent offered remedial writing courses, compared with 56 percent of institutions that offered remedial reading courses.

The proportion of institutions that offered remedial reading, writing, and mathematics courses in fall 2000 differed by institutional type, with public 2-year colleges being more likely than other types of institutions to provide college-level remediation in each subject (table 1). For example, remedial mathematics courses were offered by almost all public 2-year institutions



¹¹Differences by institutional type are reported only when they are statistically significant.

¹²Institutions were instructed on the front of the questionnaire to respond for their regular undergraduate programs, except for question 13, which asked about services/courses to business and industry. Thus, remedial courses offered to business and industry were not considered in the institution's reporting of remedial course offerings in other sections of the questionnaire.

¹³Analyses in this report are based on institutions that enrolled freshmen in fall 2000. These data are compared to those for institutions that enrolled freshmen in fall 1995.

¹⁴Estimates for private 2-year institutions were based on small sample sizes and generally had large standard errors. Thus, throughout the report, differences that appear large for private 2-year institutions were often not statistically significant.

(97 percent) compared with 49 to 78 percent of the other types of institutions. In addition, for each subject area, remedial courses were more likely to be offered by public than private 4-year institutions; for example, a higher proportion of public than private 4-year institutions offered remedial mathematics (78 vs. 49 percent).

Between 1995 and 2000, no differences were detected in the overall proportion of institutions that offered remedial courses in reading or

mathematics, although the proportion that offered remedial writing courses decreased from 71 percent to 68 percent (table 1). Changes in remedial course offerings by institutional type were observed for public 2-year colleges. For each subject area, there was a decline in the proportion of public 2-year colleges that offered remedial courses; for example, the proportion of institutions that offered remedial reading declined from 99 percent in 1995 to 96 percent in 2000.

Table 1. Number of degree-granting institutions that enrolled freshmen, and the percent of those institutions that offered remedial reading, writing, or mathematics courses, by institutional type: Fall 1995 and 2000

	Number of	Number of Percent of institutions that offered remedial courses in:						
	degree-granting							
Year and institutional type	institutions with	Reading, writing,						
	freshmen	or mathematics	Reading	Writing	Mathematics			
2000								
All institutions	3,230	76	56	68	71			
Public 2-year	1,080	98	96	96	97			
Private 2-year	270	63	37	56	62			
Public 4-year	580	80	49	67	78			
Private 4-year	1,300	59	30	46	49			
1995								
All institutions	2,990	77	57	71	72			
Public 2-year	940	100	99	99	99			
Private 2-year	330	64	30	62	62			
Public 4-year	540	80	52	71	78			
Private 4-year	1,180_	62	33	52	50			

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. The numbers of institutions have been rounded to the nearest 10.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



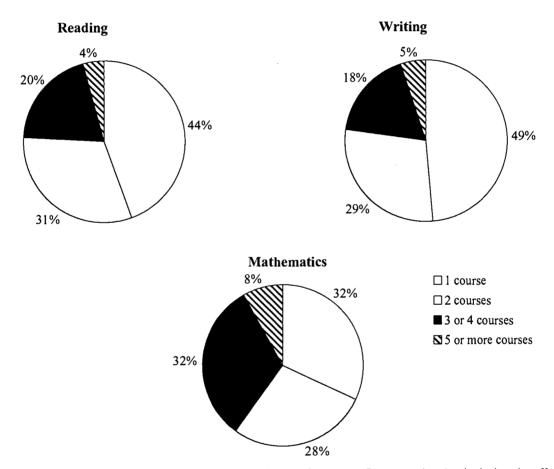
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Number of Remedial Courses

Institutions typically offered more remedial courses in mathematics than in reading or writing (figures 1 and 2).¹⁵ In fall 2000,

a larger proportion of the institutions offered three or more different remedial mathematics courses (40 percent) than the proportion that offered three or more remedial reading or writing courses (24 and 23 percent, respectively).

Figure 1. Among Title IV degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating various numbers of different remedial courses offered, by subject area: Fall 2000



NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on institutions that offered at least one remedial course in that subject area in fall 2000. Detail may not sum to totals because of rounding.

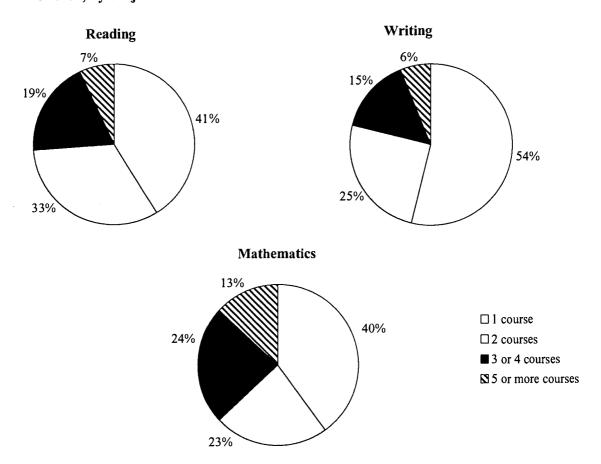
SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

¹⁵ Institutions were asked to report the number of remedial courses with different course catalog numbers and instructed that they should not count multiple sections of the same course.



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Figure 2. Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating various numbers of different remedial courses offered, by subject area: Fall 1995



NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial course in that subject area in fall 1995.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.

The extent to which institutions offered postsecondary remediation is also reflected in the average number of courses offered by institutions (table 2). In fall 2000, institutions offered an average of 2.5 remedial mathematics courses, 2.0

remedial reading courses, and 2.0 remedial writing courses. Thus, on average, the number of different remedial mathematics courses offered was higher than the number of different courses in reading or writing.



In fall 2000, the average number of remedial courses differed by institutional type, with public 2-year colleges offering more remedial courses in each of the three subjects than did the other types of institutions (table 2). For example, public 2-year colleges offered an average of 3.4 different remedial mathematics courses, while other types of institutions offered averages of 1.5 to 2.1 such courses. Public 4-year institutions also offered more different reading, writing, and mathematics

courses (1.6 to 2.1 courses), on average, than did private 4-year institutions (1.2 to 1.5 courses).

Overall, no differences were detected between 1995 and 2000 in the average number of different remedial reading, writing, or mathematics courses offered by institutions (table 2). However, the average number of remedial mathematics courses offered by private 2-year institutions increased from 1.3 in 1995 to 1.8 in 2000.

Table 2. Mean number of different remedial courses offered by degree-granting institutions that enrolled freshmen, by subject area and institutional type: Fall 1995 and 2000

Year and institutional type	Reading	Writing	Mathematics
2000			
All institutions	2.0	2.0	2.5
Public 2-year	2.5	2.6	3.4
Private 2-year	±	1.6	1.8
Public 4-year	1.6	1.6	2.1
Private 4-year	1.2	1.3	1.5
1995			
All institutions	2.2	2.0	2.5
Public 2-year	2.7	2.7	3.6
Private 2-year	‡	‡	1.3
Public 4-year	1.6	1.5	2.0
Private 4-year	1.5	1.4	1. <u>5</u>

[‡] Reporting standards not met; too few cases for a reliable estimate.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. The means are based on institutions that offered remedial courses in that subject in that year.

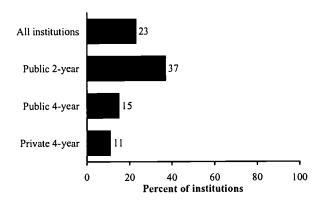
SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



Remedial Course Offerings in Other Subject Areas

Of the institutions that offered at least one remedial course in fall 2000, 23 percent offered remedial courses in academic subject areas other than reading, writing, or mathematics (figure 3). The most frequently mentioned subjects were science (general science, biology, chemistry, and physics), English as a second language, study skills, and basic computer skills (not shown in figure). Public 2-year colleges were more likely than public or private 4-year institutions to offer such courses (37 percent vs. 15 and 11 percent, respectively).

Figure 3. Among Title IV degree-granting institutions that offered remedial courses, percent indicating that they offered remedial courses in academic subjects other than reading, writing, or mathematics, by institutional type: Fall 2000

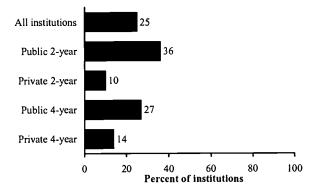


NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on those institutions that offered at least one remedial reading, writing, or mathematics course in fall 2000. Data for private 2-year institutions are included in the total percentage for all institutions, but they are not reported as a separate category because there were too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

Between 1995 and 2000, no overall differences were detected in the proportion of institutions that offered remedial courses in subject areas other than reading, writing, or mathematics. However, when analyzing by institutional type, the proportion of public 4-year colleges that offered such courses declined from 27 percent to 15 percent during this time period (figures 3 and 4)

Figure 4. Among degree-granting institutions that offered remedial courses, percent indicating that they offered remedial courses in academic subjects other than reading, writing, or mathematics, by institutional type: Fall 1995



NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on those institutions that offered at least one remedial reading, writing, or mathematics course in fall 1995.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.

Reasons Institutions Do Not Offer Remedial Courses

Institutions that did not offer remedial reading, writing, or mathematics courses were asked to indicate why those courses were not offered, using a list of reasons provided on the questionnaire: remedial courses were not needed by students at the institution, students at the institution who were determined to need remediation took remedial courses offered by another institution, state policy

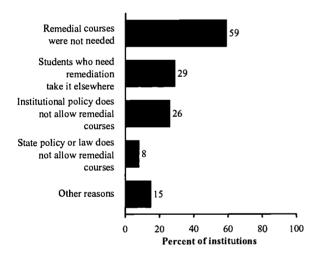


¹⁶Institutions included some courses in the "other" category that are typically not considered academic (e.g., English as a second language).

or law did not allow the institution to offer remedial courses, and institutional policy did not allow the institution to offer remedial courses.¹⁷ Institutions were also given the option to specify an "other reason" for not offering remedial courses.

The most common reason that institutions gave for not offering remedial courses was that students at the institution did not need such courses; 59 percent of the institutions that did not offer remedial courses in 2000 cited this reason (figure 5). Fewer institutions indicated that they did not offer remedial courses because students who were

Figure 5. Among Title IV degree-granting institutions that did not offer remedial courses, percent indicating the reasons they did not offer remedial courses: Fall 2000



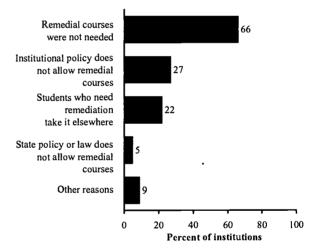
NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on the 24 percent of institutions that did not offer any remedial reading, writing, or mathematics courses in fall 2000. Respondents could select more than one reason.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

determined to need remediation took remedial courses at another institution (29 percent), and/or institutional policy did not allow remedial course offerings (26 percent). Of the reasons listed, institutions were least likely to indicate that they did not offer remedial courses because their state policy or law did not allow such course offerings (8 percent). Fifteen percent of institutions indicated that they did not offer remedial courses because of reasons other than those listed in the survey.

Overall, for each of the reasons examined in the survey, no differences were detected between 1995 and 2000 in the proportion of institutions that gave the reason for not offering remedial courses (figures 5 and 6).

Figure 6. Among degree-granting institutions that did not offer remedial courses, percent indicating the reasons they did not offer remedial courses: Fall 1995



NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on the 23 percent of institutions that did not offer any remedial reading, writing, or mathematics courses in fall 1995. Respondents could select more than one reason.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.

Remedial Course Offerings to Local Business and Industry

Institutions reported whether they provided remedial services or courses to local business and

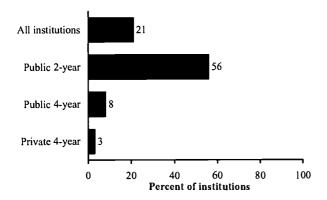


¹⁷Institutions could provide more than one reason for not offering remedial reading, writing, or mathematics courses.

industry. Institutions that offered those services also reported the subject areas covered (i.e., reading, writing, mathematics, or other subjects) and the location of those services (i.e., on the campus of the institution, at business or industry sites, through distance learning, or at other locations).

Remedial education services/courses were provided to local business and industry by 21 percent of institutions that enrolled freshmen in fall 2000 (figure 7 and table 3). Public 2-year colleges were more likely than other types of institutions to provide remedial services/courses to local business and industry; 56 percent of public 2-year colleges compared with 8 percent of public 4-year institutions and 3 percent of private 4-year institutions provided those services (figure 7).

Figure 7. Percent of Title IV degree-granting institutions that provided remedial education services/courses to local business and industry, by institutional type: Fall 2000



NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data for private 2-year institutions are not reported because there were too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

Of the postsecondary institutions that provided remedial education services to business and industry in fall 2000, a higher proportion provided remediation in mathematics than in reading (93 vs. 81 percent) (table 3). Twenty percent of the institutions provided remediation in some other

subject area (mostly English as a second language and basic computer skills; not shown in tables).

Table 3. Percent of degree-granting institutions that provided remedial education services/courses to local business and industry, and the subject area and location of those services/courses: Fall 1995 and 2000

Remedial offerings to local business and industry	1995	2000
Provided remedial education services/courses to local business and industry	19	21
Subject area of remedial services/courses ¹		
Reading	87	81
Writing		89
Mathematics		93
Other subjects		20
Location of remedial services/courses ¹		
On the campus of the institution	74	85
At business/industry sites	89	80
Through distance learning		16
Other locations	_	8

¹Percents are based on institutions that provided remedial education services/courses to local business and industry.

NOTE: Data reported for fall 2000 are based on Title IV degreegranting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

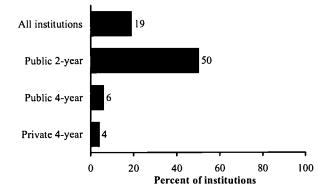
Of the institutions that provided remedial services to business and industry in 2000, most provided those services at business and industry sites (80 percent) or on the campus of the institution (85 percent) (table 3). Fewer institutions offered those remedial services through distance learning (16 percent), while institutions were least likely to provide such services at some other location (8 percent).



¹⁸Institutions could provide remedial services to business and industry at one or more of the listed locations.

Between 1995 and 2000, no differences were detected in the proportion of institutions that provided remedial services to business and industry, overall, and in each of the subject areas examined (table 3 and figures 7 and 8). However, the proportion of institutions that offered remedial education services to business and industry through distance education increased from 5 percent in 1995 to 16 percent in 2000. During this time period, the proportion of institutions offering remedial services at business and industry sites declined from 89 percent to 80 percent, whereas the proportion of institutions offering such services at campuses of institutions increased from 74 percent to 85 percent.

Figure 8. Percent of degree-granting institutions that provided remedial education services/courses to local business and industry, by institutional type: Fall 1995



NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Data for private 2-year institutions are not reported because there were too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.



3. PARTICIPATION IN REMEDIAL EDUCATION

In fall 1995 and 2000, postsecondary institutions were asked about student participation in remedial courses, including freshman enrollment in remedial courses and the average length of time that students spent in remedial courses.¹⁹

Freshman Enrollment in Remedial Courses

In fall 2000, institutions that offered remedial reading, writing, or mathematics courses were asked about the percentage of entering freshmen that enrolled in any remedial course in one or more of these subject areas, and the percentage that enrolled in remedial courses in each subject area. This information was used with enrollment data from the Integrated Postsecondary Education Data System (IPEDS) 2000 Fall Enrollment file to calculate the number of entering freshmen enrolled in remedial education courses at each institution, and the percentage across institutions 20

Freshman Enrollment in Remediation: Overall

Twenty-eight percent of entering freshmen enrolled in at least one remedial reading, writing, or mathematics course in fall 2000 (table 4). Freshman remedial enrollments differed by institutional type. The proportion of freshmen enrolling in at least one remedial reading, writing, or mathematics course was higher at public 2-year colleges than it was for all other types of institutions; 42 percent of freshmen at public 2-year colleges compared with 12 to 24 percent of freshmen at other types of institutions enrolled in In addition, public 4-year such courses. institutions had a higher proportion of freshmen enrolling in at least one remedial reading, writing, or mathematics course than did private 4-year institutions; 20 percent of freshmen at public 4-year institutions and 12 percent at private 4-year institutions enrolled in such courses in 2000.

Between 1995 and 2000, no difference was detected in the overall proportion of entering freshmen who were enrolled in at least one remedial reading, writing, or mathematics course (table 4).

Freshman Enrollment in Remediation by Subject Area

In fall 2000, the proportion of entering freshmen who were enrolled in remedial courses was larger for mathematics than writing (22 vs. 14 percent), and it was smallest for reading courses (11 percent) (table 4).

Differences in remedial enrollments by institutional type were also observed for each of the subject areas examined in the survey (table 4). Among institutions that enrolled freshmen in fall

types of first-year students in their estimates of entering freshmen enrolled in remedial education.



¹⁹Institutions reported the percentage of entering freshmen who enrolled in remedial reading, writing, or mathematics courses. Data on the length of time spent in remediation were based on institutional reporting of the average length of time a student took remedial courses. The data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4-year.

²⁰The PEQIS surveys asked institutions about the percentage of entering freshmen enrolled in remedial education. The percentages were used with information from the IPEDS 2000 Fall Enrollment file about the total number of first-time freshmen (both full and part time) enrolled at the institution. The IPEDS information about the total number of first-time freshmen was used (a) to convert the PEQIS questionnaire data on the percentage of entering freshmen enrolled in remedial education to the number of entering freshmen enrolled in remedial education at each institution, and (b) as a denominator to calculate the percentage of entering freshmen enrolled in remedial education across all institutions that enrolled freshmen. Thus, national estimates for the percentage of entering freshmen enrolled in remedial education were obtained by dividing the sum of entering freshmen enrolled in remedial education across all institutions by the sum of all first-time freshman enrollments across all institutions. To maintain comparability with previous estimates of freshman enrollment in remedial education, the information from IPEDS used in this calculation included only first-time, first-year students; other first-year students were not included. It is possible that institutions may have included both

2000, remedial enrollments for reading and mathematics were higher in public 2-year colleges than in all other types of institutions; for example, 35 percent of freshmen at public 2-year colleges enrolled in remedial mathematics compared with 8 to 18 percent of freshmen who enrolled in such courses at other types of institutions. Remedial enrollments for writing were higher at public 2-year colleges than at public and private 4-year institutions in 2000 (23 percent vs. 9 and 7 percent, respectively).

Between 1995 and 2000, no differences were detected in the proportion of freshmen who were enrolled in remedial reading or mathematics,

although the proportion of freshmen enrolled in remedial writing declined from 16 to 14 percent (table 4).

Average Length of Time in Remedial Education

In fall 1995 and 2000, institutions that offered remedial courses were asked to indicate about how long, on average, a student takes remedial courses—less than 1 year, 1 year, or more than 1 year.

Table 4. Number of entering freshmen at degree-granting institutions, and the percent of entering freshmen enrolled in remedial courses, by subject area and institutional type: Fall 1995 and 2000

<u> </u>	Number of	Percent of e	entering freshmen e	nrolled in remedial c	ourses in:
Year and institutional type	entering freshmen (in thousands)	Reading, writing, or mathematics	Reading	Writing	Mathematics
2000					
All institutions	2,396	28	11	14	22
Public 2-year	992	42	20	23	35
Private 2-year	58	24	9	17	18
Public 4-year	849	20	6	9	16
Private 4-year	497	12	5	7	8
1995					
All institutions	2,100	28	12	16	22
Public 2-year	936	40	19	24	32
Private 2-year	53	26	11	19	23
Public 4-year	721	21	8	11	17
Private 4-year	389	12	5	7_	8

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. The PEQIS surveys asked institutions about the percentage of entering freshmen enrolled in remedial education. The percentages were used with information from the IPEDS 2000 Fall Enrollment file about the total number of first-time freshmen (both full and part time) enrolled at the institution. The IPEDS information about the total number of first-time freshmen was used (a) to convert the PEQIS questionnaire data on the percentage of entering freshmen enrolled in remedial education at each institution, and (b) as a denominator to calculate the percentage of entering freshmen enrolled in remedial education across all institutions that enrolled freshmen. Thus, national estimates for the percentage of entering freshmen enrolled in remedial education were obtained by dividing the sum of entering freshmen enrolled in remedial education across all institutions. To maintain comparability with previous estimates of freshman enrollment in remedial education, the information from IPEDS used in this calculation included only first-time, first-year students; other first-year students were not included. It is possible that institutions may have included both types of first-year students in their estimates of entering freshmen enrolled in remedial education. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



The majority of institutions reported that students spent 1 year or less in remediation, on average (table 5). Of the institutions that offered remedial courses in fall 2000, 60 percent indicated that their students spent an average time of less than 1 year on remedial courses, 35 percent reported that their students spent an average of 1 year on such courses, and 5 percent reported an average time of more than 1 year in remediation.

Time spent in remediation was generally longer at public 2-year colleges than at other types of institutions (table 5). In fall 2000, public 2-year colleges were more likely than public 4-year institutions to report that students spent an average of more than 1 year on remedial courses (10 vs. 3 percent). In addition, public 2-year colleges were more likely than public or private 4-year institutions to indicate that students spent an

average of 1 year on remedial courses (53 percent vs. 35 and 16 percent, respectively). Time spent in remediation was also longer at public 4-year than private 4-year institutions; 35 percent of public 4-year institutions and 16 percent of private 4-year institutions reported that students spent an average of 1 year in remediation.

Data on the reported time spent in remediation suggest an increase in the average length of time overall that students spent in remedial education courses. Between 1995 and 2000, the proportion of institutions that reported an average of 1 year of remediation for students increased from 28 percent to 35 percent, while the proportion indicating an average of less than 1 year of remediation for students decreased from 67 percent to 60 percent (table 5).

Table 5. Among degree-granting institutions that offered remedial courses, percentage distribution indicating the approximate average length of time a student takes remedial courses at the institution, by institutional type: Fall 1995 and 2000

Year and institutional type	Less than 1 year	1 year	More than 1 year
2000			
All institutions	60	35	5
Public 2-year	37	53	10
Private 2-year	84	11!	‡
Public 4-year	62	35	3
Private 4-year	83	16	‡
1995			
All institutions	67	28	5
Public 2-year	45	44	11
Private 2-year	95	5	#
Public 4-year	69	28	3!
Private 4-year	84	14	‡

#Rounds to zero.

!Interpret data with caution; coefficient of variation greater than 50 percent.

‡Reporting standards not met; too few cases for a reliable estimate.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial reading, writing, or mathematics course in that year. Detail may not sum to totals because of rounding and not reporting where there are too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



4. INSTITUTIONAL STRUCTURE OF REMEDIAL PROGRAMS

In fall 1995 and 2000, postsecondary institutions were asked about the way they structured remedial programs.²¹ Institutions reported

- the approach used to select students for remedial courses;
- the requirement status of remedial courses;
- the most frequent type of credit earned from remedial courses;
- whether they had time limits on remediation, and the approach used to set those limits;
- the extent to which remedial students were restricted from taking regular academic courses; and
- the department or other organization that most often provided remedial education.

Selection Approach

Institutions may differ in the way they select students who need remedial coursework—they may give all entering students placement tests to determine the need for remediation, they may give entering students who meet various criteria (e.g., low SAT/ACT scores or low grade point averages) placement tests to determine need, they may require or encourage entering students who meet various criteria to enroll in remedial courses, or they may use some other selection approach.

In fall 2000, the most common selection approach for remedial coursework was to give placement tests to all entering students; a majority of institutions (57 to 61 percent) used this approach for remedial reading, writing, and mathematics (table 6). The second most common selection approach was to give placement tests to entering students who meet various criteria; 25 to 29 percent of institutions used this approach for remedial reading, writing, and mathematics courses. Ten to 12 percent of the institutions reported that they required or encouraged entering students who met various criteria to enroll in remedial courses, while 2 to 4 percent reported some other approach to select students for remedial coursework.²²

The proportion of institutions that gave all entering students placement tests to determine the need for remedial coursework differed by institutional type in fall 2000 (table 6). This approach was reported more often by public 2-year than public 4-year institutions to select students for remedial reading (63 vs. 44 percent). It was also reported more often by private 2-year colleges than private and public 4-year institutions to select students for remedial writing (86 percent vs. 54 and 50 percent, respectively), and it was reported more often by private 2-year than all other types of institutions to select students for remedial mathematics (87 percent compared with 54 to 64 percent). One possible reason for the differences is that 4-year institutions tend to rely more than 2-year institutions on SAT, ACT, and GPA scores to determine remedial needs. For example, past data show that a higher proportion of 4-year than 2-year institutions used admission test scores as an admission criterion (Snyder 2001).

Differences by institutional type were also observed in the proportion of institutions that



²¹As with previous chapters, the data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4year.

²²Other selection approaches include faculty or staff referring students for enrollment in remedial/developmental courses, and students referring themselves for enrollment in such courses.

Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the usual selection approach for remedial courses, by subject area and institutional type: Fall 1995 and 2000

								Other	selection	approach ³	
natics			Entering	students	who meet	various	criteria are	required or	encouraged	to enroll ²	
Mathematics	Entering	students	who meet	various	criteria	given	placement	tests to	determine	need1	
				All entering	students	given	placement	tests to	determine	peed	
					-			Other	selection	approach ³	
ing			Entering	students	who meet	various	criteria are	required or	encouraged	to enroll ²	
Writing	Entering	students	who meet	various	criteria	given	placement	tests to	determine	need1	
				All entering	students	given	placement	tests to	determine	peed	
Reading								Other	selection	approach ³	
			Entering	students	who meet	varions	criteria are	required or	encouraged	to enroll ²	
	Entering	students	who meet	varions	criteria	given	placement	tests to	determine	need1	
				All entering	students	given	placement	tests to	determine	need	
Year and institutional type											

	09	30	86 13!	50 30	54 22			68 22	++	49 26	48 28
	7 29 10	3 29 6	++	4 32 15	25		8 23 10	9 20 3	++	34	6 23 21
2000	All institutions 57	Public 2-year 63	Private 2-year ‡	Public 4-year 44		1995	All institutions 58	Public 2-year 69	Private 2-year ‡	Public 4-year 37	Private 4-year 46

2 # 6 9

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9

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2 # 4 6

∞

#Rounds to zero.

Interpret data with caution; coefficient of variation greater than 50 percent.

Reporting standards not met; too few cases for a reliable estimate.



Entering students who do not have SAT/ACT scores or who score below a certain level on the SAT/ACT or have a GPA below a certain level are given placement tests to determine need for remediation.

Other selection approaches include faculty or staff refer students for enrollment in remedial/developmental courses, students refer themselves for enrollment in remedial/developmental courses, and other approaches. Entering students who score below a certain level on the SAT/ACT or have a GPA below a certain level are required or encouraged to enroll in remedial/developmental courses.

^{1995.} Percents are based on institutions that offered at least one remedial course in that subject in that year. Detail may not sum to totals because of rounding and not reporting where there are too few cases for a reliable NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

required or encouraged entering students who meet various criteria to enroll in remedial courses in fall 2000 (table 6). For each subject area, this approach was reported more often by public and private 4-year institutions than public 2-year colleges. For example, this approach was used to select students for remedial writing courses by 21 percent of private 4-year institutions, 18 percent of public 4-year institutions, and 5 percent of public 2-year colleges.

Between 1995 and 2000, the proportion of institutions overall that gave reading placement tests to entering students who met various criteria increased from 23 to 29 percent, and the proportion of institutions that required or encouraged entering students who met various

criteria to enroll in remedial mathematics courses increased from 8 to 11 percent (table 6).

Course Requirement Status

Institutions were asked whether remedial courses for students needing remediation were required, or if they were recommended but not required. In fall 2000, most institutions (75 to 82 percent) required remedial reading, writing, or mathematics courses (table 7). Differences in the requirement status of remedial courses by subject area suggest that the requirements for students enrolled in remedial writing and mathematics were more stringent than the requirements for remedial reading (table 7). In fall 2000, a higher proportion

Table 7. Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the most frequent requirement status for remedial courses, by subject area and institutional type: Fall 1995 and 2000

Year and institutional type	Reading		Writing		Mathematics	
	D	Recommended but not	Dania	Recommended but not	Danwingd	Recommended but not
	Required	required	Required	required	Required	required
2000						
All institutions	75	25	82	18	81	19
Public 2-year	71	29	76	24	75	25
Private 2-year	‡	‡	88	12!	87	13!
Public 4-year	77	23	84	16	81	19
Private 4-year	82	18	89	11	88	12
1995						
All institutions	71	29	79	21	75	25
Public 2-year	62	38	69	31	67	33
Private 2-year	‡	‡	‡	‡	82	18!
Public 4-year	74	26	86	14	81	19
Private 4-year	84	16	86	14	79	21

[!]Interpret data with caution; coefficient of variation greater than 50 percent.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial course in that subject in that year.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



[‡]Reporting standards not met; too few cases for a reliable estimate.

of institutions required remedial writing and mathematics (82 and 81 percent, respectively) than reading courses (75 percent).

The proportion of institutions that required students to participate in remedial writing and mathematics courses differed by institutional type in fall 2000, with private 4-year institutions more likely than public 2-year colleges to report this requirement for both subject areas (table 7). For example, 88 percent of private 4-year institutions compared with 75 percent of public 2-year colleges reported that students who needed remedial mathematics were required to participate in those courses.

Between 1995 and 2000, there was an increase (from 75 to 81 percent) in the proportion of institutions overall that required students who were determined to need remediation in mathematics to participate in such courses (table 7). No changes were observed in the proportion of institutions that had this requirement for students who were determined to need remediation in reading or writing.

Changes in the proportion of institutions that required students who were determined to need remediation to participate in such courses were also observed for public 2-year colleges (table 7). Between 1995 and 2000, the proportion of public 2-year colleges that had this requirement increased for remedial reading (from 62 to 71 percent), remedial writing (from 69 to 76 percent), and remedial mathematics (from 67 to 75 percent). In addition, the proportion of private 4-year institutions that required students to participate in remedial mathematics increased from 79 to 88 percent.

Type of Credit

In fall 1995 and 2000, institutions reported the most frequent type of credit they gave for remedial reading, writing, and mathematics courses from among the following options: degree credit that counts toward subject requirements, degree credit that counts toward elective

requirements, institutional credit (e.g., counts toward financial aid, campus housing, or full-time student status, but does not count toward degree completion), or no credit.

Institutional credit was most often given for remedial courses in fall 2000; 73 to 78 percent of the institutions indicated that institutional credit was most frequently given for remedial reading, writing, or mathematics courses (table 8). Fewer institutions reported elective degree credit (10 to 14 percent) or subject degree credit (2 to 4 percent) as the most frequent type of credit for remedial courses. Nine to 10 percent of institutions did not give any credit for remedial reading, writing, or mathematics courses.

The proportion of institutions that most frequently gave institutional credit for remedial courses differed by the type of institution (table 8). For each subject area, private 4-year institutions were less likely than other types of institutions to most frequently award institutional credit in fall 2000. For example, institutional credit was less frequently given by private 4-year institutions than public 2-year and 4-year institutions for remedial reading courses (51 percent vs. 87 and 78 percent, respectively).

There were also differences by institutional type in the proportion of institutions that most frequently offered elective degree credit in fall 2000; for each subject area, this type of credit was more frequently awarded by private 4-year institutions than public 2-year or 4-year institutions (table 8). For example, elective degree credit for remedial mathematics was the most frequent type of credit in one-fourth of private 4-year institutions compared with 4 percent of public 2-year and 4-year institutions.

Between 1995 and 2000, the proportion of institutions overall that most frequently offered elective degree credit for remedial reading declined from 15 to 10 percent (table 8). Changes were also observed in the proportion of public 2-year and 4-year institutions that most frequently offered elective degree credit and institutional degree credit. Between 1995 and 2000, the proportion of public 2-year colleges that most



frequently gave elective degree credit for remedial reading courses declined from 8 to 4 percent, while the proportion that most frequently gave institutional credit for remedial mathematics increased from 80 to 87 percent. For public 4-year institutions, there was a decrease in the proportion that most frequently offered elective degree credit for reading (from 16 percent in 1995 to 8 percent in 2000), but an increase in the proportion that most frequently offered institutional credit for remedial writing (from 70 to 82 percent) and remedial mathematics (from 75 to 83 percent) during the same time period.

Limitations on Length of Time in Remedial Courses

In fall 1995 and 2000, institutions indicated whether there was a limit on the length of time students may spend on remedial courses. Institutions that had time limits on remediation also indicated whether those limits were set by state policy or law, institutional policy, or some other mechanism.

Table 8. Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the most frequent type of credit earned for remedial courses, by subject area and institutional type: Fall 1995 and 2000

		Read	ding			Wri	ting			Mather	natics	
Year and	Degree	Degree	Institu-	_	Degree	Degree	Institu-	_	Degree	Degree	Institu-	
institutional type	credit,	credit,	tional	No	credit,	credit,	tional	No	credit,	credit,	tional	No
	subject	elective	credit	credit	subject	elective	credit	credit	subject	elective	credit	credit
2000												
All institutions	2	10	78	9	4	14	73	9	4	10	77	10
Public 2-year	2	4	87	7	2	5	86	7	2	4	87	7
Private 2-year	‡	‡	‡	‡	‡	‡	81	9	9!	‡	81	8
Public 4-year	2	8	78	12	3	7	82	8	2	4	83	11
Private 4-year	3	30	. 51	17	5!	37	45	14	6	25	54	15
1995												
All institutions	3	15	72	10	4	17	68	11	5	11	71	13
Public 2-year	1	8	81	9	2	8	81	9	2	7	80	11
Private 2-year	‡	‡	‡	‡ 9	‡	‡	‡	‡	‡	4!	65	20
Public 4-year	‡	16	73	9	6	11	70	12	‡	9	75	13
Private 4-year	‡	36	51	11	4	40	46	9	9	23	55	14

!Interpret data with caution; coefficient of variation greater than 50 percent.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial course in that subject in that year. Detail may not sum to totals because of rounding and not reporting where there are too few cases for a reliable estimate.



[‡]Reporting standards not met; too few cases for a reliable estimate.

About one-fourth (26 percent) of the institutions reported that there was a limit on the length of time a student may take remedial courses at their institution in fall 2000 (table 9). Public and private 4-year institutions were more likely than public 2-year colleges to report time limits on remediation (29 and 31 percent vs. 20 percent, respectively).

Time limits on remediation were typically set by institutional policy (table 9). In fall 2000, 71 percent of the institutions with time limits on remediation indicated that those limits were set by

institutional policy. Fewer institutions with time limits reported that those limits were set by state policy or law (24 percent), and only 5 percent of the institutions reported some other approach to setting time limits on remediation.

In fall 2000, differences by institutional type were observed in the use of various approaches to setting time limits on remediation (table 9). For example, the use of institutional policy to set time limits on remediation was more common at private 4-year institutions than at other types of institutions, and it was least common at public

Table 9. Among degree-granting institutions that offered remedial courses, percent indicating that there is a limitation on the length of time a student may take remedial courses at the institution, and the percentage distribution indicating how the time limit on remediation is set, by institutional type: Fall 1995 and 2000

_	Length of remediation	How tim	e limit on remediation is set ²	
Year and institutional type	is limited at institutions offering remedial courses ¹	State policy or law	Institutional policy	Other
2000				
All institutions	26	24	71	5
Public 2-year	20	46	43	10
Private 2-year	31	‡	‡	‡
Public 4-year	29	27	70	‡
Private 4-year	31	‡	94	4
1995				
All institutions	25	22	75	3
Public 2-year	23	54	42	4!
Private 2-year	24	‡	‡	‡
Public 4-year	23	6	94	#
Private 4-year	28	#	99	<u>‡</u> _

#Rounds to zero.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Detail may not sum to totals because of rounding and not reporting where there are too few cases for a reliable estimate.



[!]Interpret data with caution; coefficient of variation greater than 50 percent.

[‡]Reporting standards not met; too few cases for a reliable estimate.

¹Percents are based on institutions that offered at least one remedial reading, writing, or mathematics course in that year.

²Of the institutions that offered remedial courses and indicated that there was a limit on the length of time a student may take remedial courses at their institution, the percentage distribution reporting how time limits were set.

2-year colleges. Among institutions with limits on remediation, such limits were set by institutional policy at 94 percent of private 4-year institutions, 70 percent of public 4-year institutions, and 43 percent of public 2-year colleges. The use of state policy or law to set limits on remediation also varied by institutional type. Among institutions with limits on remediation, state policy or law was more commonly used by public 2-year colleges than public 4-year institutions (46 vs. 27 percent).

Between 1995 and 2000, no differences were detected in the proportion of institutions overall that reported a limitation on the length of time that students may spend on remedial courses, or in the proportion of institutions that reported various approaches for setting those time limits (table 9). However, among public 4-year institutions, the proportion that used institutional policy to set limits on remediation decreased from 94 percent in 1995 to 70 percent in 2000, while the proportion that used state policy or law increased from 6 to 27 percent.

Restrictions on Regular Academic Courses

Institutions may employ a number of strategies to restrict the extent to which students can take regular academic courses while they are taking remedial courses. Some institutions do not place any restrictions on the regular academic courses students can take while they are enrolled in remedial courses, while others do not allow students to take any regular academic courses while they are taking remedial courses. Other institutions allow students enrolled in remedial courses to take selected regular courses (e.g., a student may simultaneously enroll in remedial mathematics courses and regular English courses). In fall 2000, most institutions (82 to 88 percent) placed some restrictions on the regular academic courses that students could take while they were enrolled in remedial reading, writing, or mathematics courses (table 10). Relatively fewer institutions (12 to 18 percent) reported that they did not impose any restrictions on regular academic courses for students enrolled in remedial writing, mathematics, and reading courses. One

Table 10. Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the extent of restrictions on regular academic courses that students can take while taking remedial courses, by subject area: Fall 1995 and 2000

Year and subject area	No restrictions	Some restrictions	Totally restricted
2000			
Reading	18	82	#
Writing	12	88	1
Mathematics	14	86	1
1995			
Reading	33	65	2
Writing	30	69	2
Mathematics	35	64	2

#Rounds to zero.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial course in that subject in that year. Detail may not sum to totals because of rounding.



percent or less of the institutions did not allow students to take any regular academic courses while they were enrolled in remedial courses.

Between 1995 and 2000, institutions tended to move away from having policies that place no restrictions (and move toward policies that enforce some restrictions) on the regular academic courses that students could take while they were enrolled in remedial courses (table 10). These changes were observed for remedial reading, writing, and mathematics courses. For example, in the area of remedial mathematics, the proportion of institutions that placed no restrictions on students' participation in regular coursework declined from 35 percent in 1995 to 14 percent in 2000, while the proportion that placed some restrictions increased from 64 percent to 86 percent.

Providers of Remedial Education

In fall 1995 and 2000, institutions indicated whether the most frequent providers of remedial education were a separate remedial division/department, the traditional academic department, a learning center, or some other location within the institution.

In fall 2000, the institution's traditional academic department was the most frequent provider of remedial courses in each subject area; a majority of institutions reported their traditional academic department was the most frequent provider of remedial writing (70 percent), mathematics (72 percent) and reading courses (57 percent) (table 11). Fewer institutions (19 to 28 percent) indicated that a separate remedial division/ department was the most frequent provider of remedial reading, writing, and mathematics courses. Seven to 13 percent of the institutions reported learning centers as the most frequent provider of remedial reading, writing, or mathematics courses, while 1 to 2 percent of the institutions reported some other location as the most frequent provider of remediation in the three subject areas.

The proportion of institutions that reported a separate remedial division/department as the most frequent provider of remedial writing and mathematics courses differed by institutional type in fall 2000 (table 11). Public 2-year colleges were more likely than private 2-year and 4-year institutions to report a separate remedial division as the most frequent provider of remedial writing courses (29 percent vs. 7 and 10 percent, respectively). Public 2-year colleges were also more likely than public and private 4-year institutions to report a separate remedial division/department as the most frequent provider of remedial mathematics courses (28 percent vs. 18 and 10 percent, respectively).

Differences by institutional type were also observed in the use of a traditional academic department as the most frequent provider of remedial writing and mathematics courses (table 11). Compared with public 2-year colleges in fall 2000, a higher proportion of private 4-year institutions cited their traditional academic departments as the most frequent providers of remedial writing courses (76 vs. 64 percent), and a higher proportion of private 2-year and 4-year institutions cited their traditional academic departments as the most frequent providers of remedial mathematics courses (87 and 81 percent vs. 64 percent, respectively).

Between 1995 and 2000, no differences were detected in the proportion of institutions overall that used a particular location (i.e., a traditional academic department, a separate remedial division, or a learning center) as the most frequent provider of remedial reading, writing, or mathematics courses (table 11). However, the proportion of public 4-year institutions indicating that a learning center was the most frequent provider of remedial reading courses increased from 6 percent to 13 percent.



Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the location within the institution of the most frequent provider of remedial education, by subject area and institutional type: Fall 1995 and 2000 Table 11.

The state of the s	-											
		Rea	Reading			Wri	Writing			Mathematics	matics	
		Separate Traditional			Separate	Traditional			Separate	Traditional		
Year and institutional type	remedial	academic			remedial	academic			remedial	academic		
	division/	depart-	Learning		/uoision/	depart-	Learning		division/	depart-	Learning	
	department	ment(s)	center	Other	department	ment(s)	center	Other	department	ment(s)	center	Other
2000												
All institutions	28	57	13	2	21	70	∞	1	19	72	7	1
Public 2-year	33	58	8	++	29	2	7	-	28	64	7	-
Private 2-year	++	++	++	++	7	81	7	9	++	87	++	++
Public 4-year	29	56	13	++	20	70	7	3	18	73	7	- ო
Private 4-year	21	55	22	++	10	9/	13	1	10	81	6	++
1995												
All institutions	30	55	13	3	22	19	6	2	20	70	7	2
Public 2-year	34	54	10	3	29	09	8	3	27	63	∞	3
Private 2-year	++	++	++	++	++	++	++	++	7	87	++	++
Public 4-year	32	58	9	· w	20	71	. 9	· w	19	72	9	· w
Private 4-year	24	50	26	++	17	70	12	2	16	74	6	2

Reporting standards not met; too few cases for a reliable estimate.

NOTE: Data reported for fall 2000 are based on Title IV degree-granting institutions that enrolled freshmen in fall 2000. Data reported for fall 1995 are based on degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on institutions that offered at least one remedial course in that subject in that year. Detail may not sum to totals because of rounding and not reporting where there are too few cases for a reliable estimate.

5. USE OF ADVANCED TECHNOLOGY IN REMEDIAL INSTRUCTION

In fall 1995 and 2000, postsecondary institutions were asked whether they offered remedial courses through distance education. Institutions were instructed to include any remedial courses delivered to remote (off-campus) locations via audio, video (live or prerecorded), or computer technologies.²³ In fall 2000, institutions were also asked about

- technologies that are used as primary modes of instructional delivery for remedial courses offered through distance education; and
- the use of computers as a hands-on instructional tool for on-campus remedial reading, writing, or mathematics courses.

Distance Education

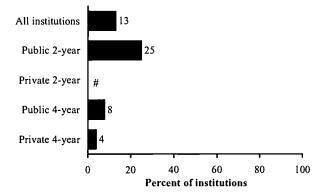
Institutions indicated whether they offered remedial courses through distance education in fall 1995 and 2000. To further explore the use of distance education in 2000, institutions were asked whether they used four types of technology as a primary mode to deliver remedial instruction through distance education—two-way interactive video, one-way prerecorded video, Internet courses using synchronous (i.e., simultaneous or "real time") computer-based instruction, and Internet courses using asynchronous (i.e., not simultaneous) computer-based instruction.²⁴ Institutions were also given the option to specify

other types of technologies that were used as a primary mode to deliver remedial education through distance education.

Use of Distance Education

In fall 2000, 13 percent of all institutions offered remedial courses through distance education (figure 9).²⁵ Public 2-year colleges were more

Figure 9. Among Title IV degree-granting institutions that offered remedial courses, percent indicating that the institution offered remedial courses through distance education, by institutional type: Fall 2000



Rounds to zero.

NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on those institutions that offered at least one remedial reading, writing, or mathematics course in fall 2000.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



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²³As with previous chapters, the data are presented by institutional type: public 2-year, private 2-year, public 4-year, and private 4year.

²⁴Two-way interactive video refers to two-way video with two-way audio, and one-way prerecorded video includes prerecorded videotapes provided to students and television broadcast or cable transmission using prerecorded video. Examples of Internet courses using synchronous computer-based instruction are interactive computer conferencing or Interactive Relay Chat; examples of Internet courses using asynchronous computer-based instruction are e-mail and most World Wide Web-based courses.

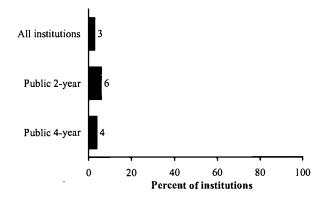
²⁵The most recent NCES study on distance education found that 56 percent of all 2-year and 4-year Title IV-eligible, degree-granting institutions offered any type of distance education course during the 12-month 2000-2001 academic year (Waits and Lewis 2003).

likely than all other institutional types to offer remedial courses through distance education; 25 percent of public 2-year colleges, 8 percent of public 4-year institutions, 4 percent of private 4-year institutions, and less than 1 percent of private 2-year institutions offered remedial courses in this way.

Between 1995 and 2000, there was an increase (from 3 percent to 13 percent) in the proportion of institutions overall that offered remedial courses through distance education (figures 9 and 10). Changes were also observed for public 2-year and 4-year institutions. The proportion of public 2-year colleges offering remedial courses through distance education increased from 6 percent in 1995 to 25 percent in 2000, and the proportion of public 4-year institutions offering remedial courses in that way increased from 4 percent to 8 percent during this time period.

Figure 10. Among degree-granting institutions that offered remedial courses, percent indicating that the institution offered remedial courses through distance education, by institutional type:

Fall 1995



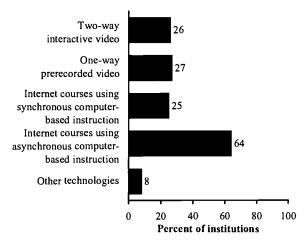
NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Percents are based on those institutions that offered at least one remedial reading, writing, or mathematics course in fall 1995. Data for private 2-year and private 4-year institutions are not reported because there were too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.

Technology Use in Remedial Distance Education Courses

In fall 2000, the primary mode of delivery for remedial instruction through distance education was Internet courses using asynchronous (i.e., not simultaneous) computer-based instruction; 64 percent of the institutions identified this technology as a primary mode of delivery (figure 11).²⁶ Fewer institutions (25 to 27 percent) cited

Figure 11. Among Title IV degree-granting institutions that offered remedial courses through distance education, percent indicating the types of technology used as a primary mode of instructional delivery for the remedial courses offered through distance education: Fall 2000



NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on those institutions offering remedial courses that indicated that the institution offered remedial courses through distance education in fall 2000. Two-way interactive video refers to two-way video with two-way audio, and one-way prerecorded video includes prerecorded videotapes provided to students, and television broadcast or cable transmission using prerecorded video. Examples of Internet courses using synchronous computer-based instruction are interactive computer conferencing or Interactive Relay Chat; examples of Internet courses using asynchronous computer-based instruction are e-mail and most World Wide Web-based courses.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



²⁶Institutions could report more than one type of technology as a primary mode of delivery for remedial instruction through distance education

the use of two-way interactive video, one-way prerecorded video, or Internet courses using synchronous computer-based instruction as a primary mode of delivery. Eight percent of the institutions identified some other technology as a primary mode of delivery of remedial courses offered through distance education.

Use of Computers for Instruction

In fall 2000, about one-third (31 to 35 percent) of the institutions reported that computers were used *frequently* by students as a hands-on instructional tool for on-campus remedial reading, writing, or mathematics courses (table 12).²⁷ Computers were used *occasionally* by 40 to 41 percent of

institutions for instruction in remedial reading, writing, or mathematics courses. The proportion of institutions indicating that they *never or very rarely* used this technology for remedial instruction in the various subject areas ranged from 24 to 29 percent.

Public 2-year colleges were more likely than public or private 4-year institutions to report that they frequently used computers as a hands-on instructional tool for on-campus remedial reading, writing, and mathematics courses in fall 2000 (table 12). For example, frequent use of this technology for remedial reading instruction was reported more often by public 2-year colleges (42 percent) than public or private 4-year institutions (27 and 23 percent, respectively).

Table 12. Among Title IV degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating how frequently computers are used by students as a hands-on instructional tool for on-campus remedial courses, by subject area and institutional type: Fall 2000

		Reading			Writing			Mathematics	
Institutional type	Never or very rarely	Occa- sionally	Fre- quently	Never or very rarely	Occa- sionally	Fre- quently	Never or very rarely	Occa- sionally	Fre- quently
All institutions	26	40	34	24	41	35	29	40	31
Public 2-year Private 2-year	16 ‡	41 ‡	42 ‡	10 33	44 46	46 21	17 39	44 33	40 28
Public 4-year Private 4-year	28 44	45 33	27 23	33 39	40 36	26 25	34 _ 43	41 33	25 23

[‡]Reporting standards not met; too few cases for a reliable estimate.

NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Percents are based on institutions that offered at least one remedial course in that subject in fall 2000. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

²⁷Institutions were instructed to exclude remedial courses offered through distance education.



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6. SUMMARY AND CONCLUSIONS

Postsecondary remedial education has been the subject of an ongoing debate among educators, policymakers, and the public. Central to this debate are issues regarding the extent to which entering students are underprepared for collegelevel work, the financial and human resource costs of remedial education to institutions, the negative impact that remedial education may have on the quality of regular course offerings, and, in general, the role of remediation in the curricula of 2-year and 4-year institutions (Hoyt and Sorenson 2001; Ignash 1997; Kozeracki 2002; Levin 2001; McCabe 2000; Roueche and Roueche 1999; Shults 2000).

This study, conducted by NCES in the fall of 2000. investigated the prevalence characteristics of remedial education at degreegranting 2-year and 4-year institutions that enroll freshmen, and changes from 1995. Specifically, the data presented in this report address four broad questions:

- How prevalent is postsecondary remedial education?
- How is remedial education organized and delivered?
- How do institutional types (public 2-year, private 2-year, public 4-year, and private 4year) differ in the provision, organization, and delivery of remedial education?
- What changes have occurred in remedial education from 1995?

How Prevalent is Postsecondary **Remedial Education?**

The survey findings provide information on the prevalence of remedial education in reading, writing, and mathematics based on four indicators: the proportion of institutions that offer remedial courses, the proportion of entering freshmen who enroll in remedial courses, the average number of remedial courses offered, and the average time that students spend in remediation. In fall 2000, about three-fourths (76 percent) of the institutions that enrolled freshmen offered at least one remedial reading, writing, or mathematics course. and 28 percent of entering freshmen enrolled in at least one of those courses. The data further show that, on average, institutions offered 2.0 to 2.5 different remedial reading, writing, mathematics courses in fall 2000. In addition, the majority of institutions reported that students spent an average of 1 year or less in remediation; in fall 2000, 60 percent of the institutions indicated that the average time a student spent in remediation was less than 1 year, 35 percent indicated that the average time was 1 year, and 5 percent reported an average time of more than 1 year.²⁸

How is Remedial Education Organized and Delivered?

strategies for organizing Institutional delivering remedial programs include the ways in which remedial needs are determined and served (Perin 2002). The survey data addressed remedial policies and practices regarding the assessment of remedial needs, student enrollment in remedial courses, and the organization of remedial courses.

The 2000 survey findings indicate that while the most common strategy to assess students was to give all entering students placement tests (57 to 61 percent of the institutions used this approach), some institutions used more selective assessment



²⁸As indicated earlier in the report, students may also choose to limit the time they spend in remediation in order to qualify for federal student aid. Based on federal policy, students may not be considered eligible for federal financial aid if they are enrolled solely in remedial programs or if remedial coursework exceeds one academic year (Higher Education Act of 1965, as amended).

procedures. For example, 25 to 29 percent of the institutions gave placement tests to entering students who met various criteria (e.g., low SAT/ACT scores or low grade point averages).

Strategies for serving students' remedial needs reflect the extent to which remedial education is mainstreamed (i.e., embedded in traditional academic departments) and integrated into college-level curricula. The survey findings indicate that although remedial education is typically embedded in the institutions' traditional academic departments, the general tendency is for institutions to organize and deliver remedial courses as separate from their regular college curricula. In fall 2000, a majority of institutions indicated that the traditional academic department was the most frequent provider of remedial writing (70 percent), mathematics (72 percent) and reading courses (57 percent). However, the data suggest that institutions typically do not integrate remedial education into their regular college curricula. For example, in fall 2000, most institutions (73 to 78 percent) cited institutional credit (as opposed to degree credit) as the most frequent type of award for remedial reading, writing, or mathematics courses, and most institutions (82 to 88 percent) placed some restrictions on the regular courses that students could take while they were enrolled in remedial courses.

The surveys explored other enrollment policies that may restrict freshman participation in remedial education. The findings suggest that while institutions generally make it mandatory for students who need remedial education to enroll in such courses, most do not impose limits on the length of time that a student can spend in remediation.²⁹ In fall 2000, 75 to 82 percent of the institutions reported mandatory policies for students who needed remedial reading, writing, or mathematics education to enroll in such courses.

²⁹Students may also choose to limit the time they spend in remediation in order to qualify for federal student aid. Based on federal policy, students may not be considered eligible for federal financial aid if they are enrolled solely in remedial programs or if remedial coursework exceeds one academic year (Higher Education Act of 1965, as amended). However, about one-fourth (26 percent) reported that there was a limit on the length of time a student may take remedial courses at their institution.

Institutional strategies for delivering remedial education courses examined in this report include the use of advanced technology in the delivery of remedial courses through distance education and on-campus instruction. In fall 2000, 13 percent of the institutions offered remedial courses through distance education, and about one-third (31 to 35 percent) of the institutions reported that computers were used frequently by students as a hands-on instructional tool for on-campus remedial reading, writing, or mathematics courses.

How Do Institutions Differ in the Provision, Organization, and Delivery of Remedial Education?

The survey findings indicate that public 2-year colleges were more likely than other types of institutions to provide remedial education. In fall 2000, almost all public 2-year colleges (98 percent) offered at least one remedial reading, writing, or mathematics course, compared to 59 to 80 percent of other types of institutions. Public 2year colleges enrolled a higher proportion of entering freshmen in remedial courses (42) percent) than did other types of institutions (12 to 24 percent). In addition, public 2-year colleges offered more remedial courses, on average, and they reported longer time periods that students spend in remediation. The relatively short time that students spend in remediation at public and private 4-year institutions may be associated with the survey finding that these institutions were more likely than public 2-year institutions to impose limits on the time that students are permitted to spend in remediation.

Public 4-year institutions are also significant providers of remedial education. In fall 2000, public 4-year institutions were more likely than private 4-year institutions to offer one or more remedial reading, writing, or mathematics courses (80 vs. 59 percent), and they enrolled a higher



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proportion of entering freshmen in such courses (20 vs. 12 percent). Public 4-year institutions also offered more remedial reading, writing, and mathematics courses, on average, than did private 4-year institutions.

Public 2-year colleges differed from other institutional types in the delivery of remedial education courses. In fall 2000, for example, public 2-year colleges were more likely than other types of institutions to deliver remedial education through a separate entity from the traditional academic department, although those differences did not show clear patterns across subject areas. Specifically, public 2-year colleges were more likely than private 2-year and 4-year institutions to cite a separate remedial division as the most frequent provider of remedial writing (29 percent vs. 7 and 10 percent, respectively), and they were more likely than public and private 4-year institutions to report a separate remedial division as the most frequent provider of remedial mathematics (28 percent vs. 18 and 10 percent, respectively). In addition, compared to public and private 4-year institutions, public 2-year colleges were more likely to offer remedial courses through distance education (25 percent vs. 8 and 4 percent, respectively), and they were more likely to report that computers were frequently used as a hands-on instructional tool for on-campus remedial reading, writing, and mathematics courses.

Private 4-year institutions differed from some other types of institutions in the extent to which remedial education was integrated into the college-level curricula, although those findings tend to show mixed patterns. For example, private 4-year institutions were more likely than public 2-year institutions to require underprepared students to enroll in remedial writing and mathematics courses, and they were more likely than public 2-year and 4-year institutions to offer elective degree credit for remedial reading, writing, or mathematics courses. In addition, private institutions tend to have their remedial

programs embedded in the traditional academic department. Compared with public 2-year colleges in fall 2000, a higher proportion of private 4-year institutions cited the traditional academic department as the most frequent provider of remedial writing courses (76 vs. 64 percent), and a higher proportion of private 2-year and 4-year institutions cited their traditional academic department as the most frequent provider of remedial mathematics courses (87 and 81 percent vs. 64 percent, respectively).

What Changes Have Occurred in Remedial Education From 1995?

Data from the 1995 and 2000 surveys indicate that no differences were detected in the proportion of institutions overall that offered at least one remedial reading, writing, or mathematics course, or in the proportion of entering freshmen who enrolled in at least one of those courses during that time period. However, during this time period, there were declines in the proportion of institutions that offered remedial writing courses (from 71 to 68 percent), and in the proportion of entering freshmen who enrolled in those courses (from 16 to 14 percent).

Institutions were more likely to report mandatory enrollment policies for students in need of remedial mathematics education in 2000 than in 1995 (81 vs. 75 percent). Between 1995 and 2000, institutions shifted also toward less integrative strategies for organizing remedial education by imposing more restrictive policies for remedial education. For example, for each subject area, there was an increase in the proportion of institutions that had some restrictions on the regular courses that students could take while they were enrolled in remedial courses.



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APPENDIX A

METHODOLOGY



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METHODOLOGY

Postsecondary Education Quick Information System

The Postsecondary Education Quick Information System (PEOIS) was established in 1991 by the National Center for Education Statistics (NCES), U.S. Department of Education. PEQIS is designed to conduct brief surveys of postsecondary institutions or state higher education agencies on postsecondary education topics of national importance. Surveys are generally limited to three pages of questions, with a response burden of about 30 minutes per respondent. Most PEQIS institutional surveys use a previously recruited, nationally representative panel of institutions. The PEOIS panel was originally selected and recruited in 1991-92. In 1996, the PEOIS panel was reselected to reflect changes in the postsecondary education universe that had occurred since the original panel was selected. A modified Keyfitz approach (Brick, Morganstein, and Wolters 1987) was used to maximize overlap between the 1996 panel and the 1991-92 panel. The sampling frame for the PEQIS panel recruited in 1996 was constructed from the 1995-96 Integrated Postsecondary Education Data System (IPEDS) Institutional Characteristics Institutions eligible for the 1996 PEQIS sampling frame included 2-year and 4-year (including graduate-level) institutions (both institutions of higher education³⁰ and other postsecondary institutions), and less-than-2-year institutions of higher education located in the 50 states and the District of Columbia: a total of 5,353 institutions.

The 1996 PEQIS sampling frame was stratified by instructional level (4-year, 2-year, less-than-2-year), control (public, private nonprofit, private for-profit), highest level of offering (doctor's/first professional, master's, bachelor's, less than

bachelor's), total enrollment, and status as either an institution of higher education or other postsecondary institution. Within each of the strata, institutions were sorted by region (Northeast, Southeast, Central, West), whether the institution had a relatively high minority enrollment, and whether the institution had research expenditures exceeding \$1 million. The sample of 1,669 institutions for the 1996 PEQIS panel was allocated to the strata in proportion to the aggregate square root of total enrollment. Institutions within a stratum were sampled with equal probabilities of selection. The modified Keyfitz approach resulted in 80 percent of the institutions in the 1996 panel overlapping with the 1991-92 panel. Panel recruitment was conducted with the 338 institutions that were not part of the overlap sample. During panel recruitment, 20 institutions were found to be ineligible for PEQIS, primarily because they were either closed or offered only correspondence courses. The final unweighted response rate at the end of PEQIS panel recruitment with the institutions that were not part of the overlap sample was 98 percent (312) of the 318 eligible institutions). There were a total of 1,634 eligible institutions in the entire 1996 panel, because 15 institutions in the overlap sample were determined to be ineligible for The final participation rate various reasons. across the institutions that were selected for the 1996 panel was over 99 percent (1,628 participating institutions out of 1,634 eligible institutions).

Each institution in the PEQIS panel was asked to identify a campus representative to serve as survey coordinator. The campus representative facilitates data collection by identifying the appropriate respondent for each survey and forwarding the questionnaire to that person.

³⁰At the time the 1991-92 and 1996 PEQIS panels were selected, NCES was defining higher education institutions as institutions accredited at the college level by an agency recognized by the Secretary, U.S. Department of Education.



Sample and Response Rates

The sample for the PEOIS 2000 remedial education survey consisted of all of the 2-year and 4-year higher education institutions in the 1996 PEOIS panel that enrolled freshmen. At the time the PEQIS panels were selected, NCES was higher education institutions defining institutions accredited at the college level by an agency recognized by the Secretary, U.S. Department of Education (ED). However, ED no longer makes a distinction between higher education institutions and other postsecondary institutions that are eligible to participate in federal Title IV financial aid programs. Thus, NCES no longer categorizes institutions as higher education institutions. Following data collection on the PEQIS 2000 remedial education survey, a poststratification weighting adjustment As part of this adjustment, the conducted. definition of eligible institutions was changed because of the way NCES now categorizes postsecondary institutions. An institution is now eligible for PEQIS (and for this PEQIS remedial education survey) if it is eligible to award federal Title IV financial aid, and grants degrees at the associate's level or higher. Institutions that are both Title IV-eligible and degree-granting are approximately equivalent to higher education institutions as previously defined. The 1,242 eligible institutions in the survey represent the universe of approximately 3,230 Title IV-eligible, degree-granting institutions that enrolled freshmen in the 50 states and the District of Columbia.³¹

In early June 2001, questionnaires (see appendix C) were mailed to the PEQIS coordinators at the institutions. Coordinators were told that the survey was designed to be completed by the person at the institution most knowledgeable about the institution's remedial education courses. Telephone follow up of nonrespondents was initiated in late June 2001; data collection and clarification were completed in early September 2001. The unweighted survey response rate was

³¹Institutions were stratified by instructional level (4-year, 2-year), control (public, private nonprofit, private for-profit), highest level of offering (doctor's/first-professional, master's, bachelor's, less than bachelor's), and total enrollment.

95 percent (1,186 responding institutions divided by the 1.242 eligible institutions in the sample); the weighted survey response rate was 96 percent. Taking into account both nonresponse in the PEOIS panel and survey nonresponse among eligible institutions, the unweighted overall response rate was 95 percent (99.6 percent panel recruitment participation rate multiplied by the 95.49 percent survey response rate). weighted overall response rate was also 95 percent (99.7 percent weighted panel recruitment participation rate multiplied by the 95.52 percent weighted survey response rate). Weighted item nonresponse rates ranged from 0 to 1 percent, except for question 5i (percent of entering freshmen enrolled in remedial courses in reading, writing, and mathematics), which had a weighted item nonresponse of 3 percent for each of the subject areas. Imputation for item nonresponse was not implemented.

Comparing the 1995 and 2000 PEQIS Studies: Technical Notes

There are a number of factors that must be considered when comparing the 1995 and 2000 PEQIS studies. This section describes the sample for the 1995 PEQIS study and how it differs from the sample for the 2000 study, and describes the approach used for comparing findings from the two studies.

The sample for the 1995 study consisted of twothirds of the 2-year and 4-year higher education institutions in the PEQIS panel selected in 1991– 92, which was based on the 1990–91 IPEDS Institutional Characteristics file. Of this sample of 847 institutions, 797 institutions responded, for an unweighted response rate of 94 percent, and a weighted response rate of 96 percent. Of the responding institutions, 750 enrolled freshmen. These institutions represented the universe of approximately 3,060 higher education institutions at the 2-year and 4-year level in the 50 states, the District of Columbia, and Puerto Rico that enrolled freshmen.



The sample for the 2000 study, described in the Sample and Response Rates section above. consisted of all of the 2-year and 4-year higher education institutions in the PEOIS panel selected in 1996, which was based on the 1995-96 IPEDS Institutional Characteristics file. The 1996 PEOIS panel was selected in a way that maximized the overlap between the 1991-92 and 1996 panels. However, institutions in Puerto Rico were not included in the 1996 PEQIS panel, as they had been in the 1991-92 PEQIS panel. At the time the 1996 PEOIS panel was selected, NCES was still defining higher education institutions in the same way as it was when the 1991–92 PEQIS panel was selected. However, as part of the poststratification weighting adjustment conducted after data collection on the 2000 study, the definition of eligible institutions was changed because of the way NCES now categorizes postsecondary institutions. An institution is now eligible for PEOIS (and for this PEOIS remedial education survey) if it is eligible to award federal Title IV financial aid, and grants degrees at the associate's level or higher.

In order to make comparisons between the two studies, the data from the 1995 study were reanalyzed with the definition of eligible institutions changed to match the definition for the 2000 study as closely as possible. Information about eligibility to award federal Title IV financial aid was not available for the institutions in the 1995 study. According to NCES, the designation as a higher education institution was the best approximation to Title IV eligibility available for these institutions. Institutions were identified as degree-granting based on level of offering as reported to IPEDS. As a result of the changes in the definition of eligible institutions, there were a total of 14 institutions excluded from the data file for the 1995 study—10 institutions in Puerto Rico, and 4 that were not degree-granting. The analyses for the 1995 study that are presented in this report are based on 736 institutions, representing approximately 2,990 degree-granting higher education institutions in the 50 states and the District of Columbia. In addition, the replicate weights³² for the studies were redefined for variance calculations to reflect the overlap in the 1995 and 2000 samples.

Definition of Institutional Type

Institutional type (public 2-year, private 2-year, public 4-year, private 4-year) was used for analyzing the survey data. Type was created from a combination of level (2-year, 4-year) and control (public, private). Two-year institutions are defined as institutions at which the highest level of offering is at least 2 but less than 4 years (below the baccalaureate degree); 4-year institutions are those at which the highest level of offering is 4 or more years (baccalaureate or higher degree).³³ Private comprises private nonprofit and private for-profit institutions; these private institutions are reported together because there are too few private for-profit institutions in the sample for this survey to report them as a separate category.

Sampling and Nonsampling Errors

The survey data were weighted to produce national estimates (see tables A-1 and A-2). The weights were designed to adjust for the variable of selection and differential probabilities nonresponse. The findings in this report are estimates based on the sample selected and, consequently, are subject to sampling variability. The survey estimates are also subject to nonsampling errors that can arise because of nonobservation (nonresponse or noncoverage) errors, errors of reporting, and errors made in data collection. These errors can sometimes bias the Nonsampling errors may include such data. problems as misrecording of responses; incorrect editing, coding, and data entry; differences related to the particular time the survey was conducted; or errors in data preparation. While general sampling theory can be used in part to determine



³²Replicate weights are discussed in the section below on variances.

³³Definitions for level are from the data file documentation for the IPEDS Institutional Characteristics file.

Table A-1. Number and percent of Title IV degree-granting institutions in the study that enrolled freshmen, and the estimated number and percent in the nation, by institutional type:

Fall 2000

To dia alia di amen	Respon	dents	National	estimate ¹
Institutional type	Number	Percent	Number	Percent
All institutions	1,186	100	3,230	100
Public 2-year	387	33	1,080	33
Private 2-year	52	4	270	8
Public 4-year	369	31	580	18
Private 4-year	_ 378	32	1,300	40

¹Data presented in all tables are weighted to produce national estimates. The sample was selected with probabilities proportionate to the square root of total enrollment. Institutions with larger enrollments have higher probabilities of inclusion and lower weights. The weighted numbers of institutions have been rounded to the nearest 10.

NOTE: Data are for Title IV degree-granting institutions that enrolled freshmen in fall 2000. Detail may not sum to totals because of rounding. SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

Table A-2. Number and percent of degree-granting institutions in the study that enrolled freshmen, and the estimated number and percent in the nation, by institutional type: Fall 1995

To the standard Laure	Respondents		National estimate	e ¹
Institutional type	Number	Percent	Number	Percent
All institutions	736	100	2,990	100
Public 2-year	246	33	940	32
Private 2-year	46	6	330	11
Public 4-year	220	30	540	18
Private 4-year	224	30	1,180	39

¹Data presented in all tables are weighted to produce national estimates. The sample was selected with probabilities proportionate to the square root of full-time-equivalent enrollment. Institutions with larger enrollments have higher probabilities of inclusion and lower weights. The weighted numbers of institutions have been rounded to the nearest 10.

NOTE: Data are for degree-granting institutions that enrolled freshmen in fall 1995. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995.

how to estimate the sampling variability of a statistic, nonsampling errors are not easy to measure and, for measurement purposes, usually require that an experiment be conducted as part of the data collection procedures or that data external to the study be used.

To minimize the potential for nonsampling errors, the questionnaire was pretested with respondents at institutions like those that completed the survey. During the design of the survey and the survey pretest, an effort was made to check for consistency of interpretation of questions and to eliminate ambiguous items. The questionnaire and instructions were extensively reviewed by NCES. Manual and machine editing of the questionnaire responses were conducted to check the data for accuracy and consistency. Cases with missing or inconsistent items were recontacted by telephone. Data were keyed with 100 percent verification.



Variances

The standard error is a measure of the variability of an estimate due to sampling. It indicates the variability of a sample estimate that would be obtained from all possible samples of a given design and size. Standard errors are used as a measure of the precision expected from a particular sample. If all possible samples were surveyed under similar conditions, intervals of 1.96 standard errors below to 1.96 standard errors above a particular statistic would include the true population parameter being estimated in about 95 percent of the samples. This is a 95 percent confidence interval. For example, the estimated percentage of institutions reporting that they offered any remedial education courses in reading, writing, or mathematics in fall 2000 is 76.3 percent, and the estimated standard error is 1.5 percent. The 95 percent confidence interval for the statistic extends from [76.3 - (1.5 times 1.96)] to [76.3 + (1.5 times 1.96)], or from 73.4 to 79.2 percent. Tables of standard errors for each table and figure in the report are provided in appendix B.

The coefficient of variation (cv) is defined as the ratio of the standard error of an estimate to the estimate itself (Kish 1965). When multiplied by 100, the cv expresses the standard error as a percentage of the quantity being estimated. Thus, the cv can be viewed as relative standard error. For example, if an estimate of 25,000 has standard error of 3,300, the corresponding cv is 13.2 percent. In this report, estimates with a cv of 50 percent or greater were flagged to be interpreted with caution.

Estimates of standard errors were computed using a technique known as jackknife replication. As with any replication method, jackknife replication involves constructing a number of subsamples (replicates) from the full sample and computing the statistic of interest for each replicate. The mean square error of the replicate estimates around the full sample estimate provides an estimate of the variances of the statistics. To

construct the replications, 50 stratified subsamples of the full sample were created and then dropped one at a time to define 50 jackknife replicates. A computer program (WesVar) was used to calculate the estimates of standard errors. WesVar is a stand-alone Windows application that computes sampling errors for a wide variety of statistics (totals, percents, ratios, log-odds ratios, general functions of estimates in tables, linear regression parameters, and logistic regression parameters).

The test statistics used in the analysis were calculated using the jackknife variances and thus appropriately reflect the complex nature of the sample design. addition, In Bonferroni adjustments were made to control for multiple comparisons where appropriate. Bonferroni adjustments correct for the fact that a number of comparisons (g) are being made simultaneously. The adjustment is made by dividing the 0.05 significance level by g comparisons, effectively increasing the critical value necessary for a difference to be statistically significant. means that comparisons that would have been significant with an unadjusted critical t value of 1.96 may not be significant with the Bonferroniadjusted critical t value. For example, the value Bonferroni-adjusted critical t comparisons between any two of the four categories of institutional type is 2.64, rather than 1.96. This means that there must be a larger difference between the estimates being compared for there to be a statistically significant difference when the Bonferroni adjustment is applied than when it is not used.

Background Information

The survey was requested by the National Center for Education Statistics of the U.S. Department of Education and performed under contract with Westat. Bernie Greene was the NCES Project Officer. Westat's Project Director was Elizabeth Farris, and the Survey Managers were Laurie Lewis and Basmat Parsad.



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APPENDIX B

STANDARD ERROR TABLES



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Table B-1. Standard errors for table 1: Number of degree-granting institutions that enrolled freshmen, and the percent of those institutions that offered remedial reading, writing, or mathematics courses, by institutional type: Fall 1995 and 2000

	Number of	Percent of i	nstitutions that offere	d remedial courses	in:
Year and institutional type	degree-granting institutions with freshmen	Reading, writing, or mathematics	Reading	Writing	Mathematics
2000					
All institutions	37.1	1.5	1.4	1.6	1.5
Public 2-year	#	1.0	1.3	1.2	1.4
Private 2-year	6.4	8.5	7.1	8.6	8.4
Public 4-year	5.8	1.3	2.0	1.5	1.9
Private 4-year	35.4	3.1	2.3	3.3	2.8
1995					
All institutions	44.8	1.7	1.6	1.7	1.6
Public 2-year	19.6	†	0.7	0.5	0.6
Private 2-year	30.4	6.3	5.5	6.3	6.6
Public 4-year	15.0	2.6	3.1	2.8	2.7
Private 4-year	43.4	4.0	2.9	4.3	3.5

#Rounds to zero.

†Not applicable; estimate of standard error is not derived because it is based on a statistic estimated at 100 percent.



Table B-2. Standard errors for table 2: Mean number of different remedial courses offered by degree-granting institutions that enrolled freshmen, by subject area and institutional type: Fall 1995 and 2000

Year and institutional type	Reading	Writing	Mathematics
2000			
All institutions	0.05	0.06	0.05
Public 2-year	0.07	0.11	0.08
Private 2-year	‡	0.23	0.16
Public 4-year	0.05	0.04	0.05
Private 4-year	0.04	0.04	0.06
1995			
All institutions	0.07	0.06	0.07
Public 2-year	0.09	0.09	0.13
Private 2-year	‡	‡	0.09
Public 4-year	0.07	0.06	0.08
Private 4-year	0.08	0.09	0.08

[‡]Reporting standards not met; too few cases for a reliable estimate.



Table B-3. Standard errors for table 3: Percent of degree-granting institutions that provided remedial education services/courses to local business and industry, and the subject area and location of those services/courses: Fall 1995 and 2000

Remedial offerings to local business and industry	1995	2000
Provided remedial education services/courses to local business and industry	1.4	1.0
Subject area of remedial services/courses		
Reading	3.0	2.7
Writing	2.4	2.3
Mathematics	1.7	1.5
Other subjects	3.2	2.6
Location of remedial services/courses		
On the campus of the institution	3.7	2.0
At business/industry sites	2.5	2.8
Through distance learning	1.4	2.3
Other locations	1.0	1.7



Table B-4. Standard errors for table 4: Number of entering freshmen at degree-granting institutions, and the percent of entering freshmen enrolled in remedial courses, by subject area and institutional type: Fall 1995 and 2000

	Number of	. Percent of e	ntering freshmen en	rolled in remedial c	ourses in:
Vannandinskitutian toma	first-time				
Year and institution type	freshmen	Reading, writing,			
	(in thousands)	or mathematics	Reading	Writing	Mathematics
2000					
All institutions	27.9	0.4	0.3	0.3	0.4
Public 2-year	19.2	0.9	0.7	0.6	0.8
Private 2-year	8.9	5.4	2.2	4.0	3.5
Public 4-year	7.9	0.5	0.3	0.3	0.5
Private 4-year	12.5	0.9	0.5	0.7	0.7
1995					
All institutions	30.8	0.8	0.6	0.6	0.8
Public 2-year	24.7	1.4	1.0	1.0	1.4
Private 2-year	6.5	5.7	2.7	5.6	5.1
Public 4-year	15.7	1.2	0.8	0.8	1.1
Private 4-year	14.8	1.2	0.9	0.9	1.0



Table B-5. Standard errors for table 5: Among degree-granting institutions that offered remedial courses, percentage distribution indicating the approximate average length of time a student takes remedial courses at the institution, by institutional type: Fall 1995 and 2000

Year and institutional type	Less than 1 year	l year	More than 1 year
2000			
All institutions	1.9	1.8	0.6
Public 2-year	2.5	2.5	1.2
Private 2-year	7.3	5.6	‡
Public 4-year	1.9	1.7	0.8
Private 4-year	3.0	3.0	‡
1995			
All institutions	1.6	1.5	1.0
Public 2-year	3.4	3.3	2.0
Private 2-year	2.5	2.5	†
Public 4-year	3.7	3.3	1.7
Private 4-year	3.6	3.2	‡

[†]Not applicable; estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.



[‡]Reporting standards not met; too few cases for a reliable estimate.

distribution indicating the usual selection approach for remedial courses, by subject area and institutional type: Fall 1995 and 2000 Standard errors for table 6: Among degree-granting institutions that offered remedial courses in the given subjects, percentage Table B-6.

		Reading	ling			Writing	ing			Mathematics	natics	
Year and institutional type	All entering students given placement tests to determine need	Entering students who meet various criteria given placement tests to determine need	Entering students who meet various criteria are required or encouraged to enroll	Other selection approach	All entering students given placement tests to determine need	Entering students who meet various criteria given placement tests to determine need	Entering students who meet various criteria are required or encouraged to enroll	Other selection approach	All entering students given placement tests to determine need	Entering students who meet various criteria given placement tests to determine need	Entering students who meet various criteria are required or encouraged to enroll	Other selection approach
2000								; ,				
All institutions	2.0	1.7	1.2	9.0	1.6	1.4	1.0	0.4	1.6	1.4	1.1	0.5
Public 2-year Private 2-year Public 4-year Private 4-year	3.1 ‡ 2.9 4.4	2.6 2.3 4.3	1.2 + 1.9 3.5	0.5 † 1.7 2.3	2.9 7.0 2.2 4.0	2.5 7.0 1.6 3.0	1.2 + 1.6 2.9	0.4 0.2 1.1	2.9 6.4 1.7 3.6	2.4 6.5 1.3 2.6	1.3 + 1.5 3.1	0.5 † 0.7 1.4
1995												
All institutions	2.6	2.4	1.7	1.4	2.6	2.3	1.3	1.4	2.6	2.3	1.1	1.1
Public 2-year Private 2-year Public 4-year Private 4-year	3.4 † 4.7 6.9	3.2 † 5.0 5.2	1.3 ‡ 3.2 5.2	1.8	3.8 4.2 5.3	3.2 ‡ 3.4 5.1	0.8 † † 2.4 4.1	1.8	3.8 6.8 3.8 5.0	3.1 6.7 3.5 4.1	0.8 † 1.5 3.7	1.8 + + 1.3 2.3

†Not applicable; estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.

‡Reporting standards not met; too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



Table B-7. Standard errors for table 7: Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the most frequent requirement status for remedial courses, by subject area and institutional type: Fall 1995 and 2000

	Read	ling	Writ	ting	Mathe	matics
Year and institutional type	-	Recommended	_	Recommended		Recommended
Tear and institutional type		but not		but not		but not
	Required	required	Required	required	Required	required
	•					
2000						
All institutions	1.4	1.4	1.4	1.4	1.4	1.4
Public 2-year	2.3	2.3	2.4	2.4	2.4	2.4
Private 2-year	‡	‡	7.5	7.5	7.2	7.2
Public 4-year	2.6	2.6	2.3	2.3	1.9	1.9
Private 4-year	3.2	3.2	2.2	2.2	2.3	2.3
1995						
All institutions	2.7	2.7	2.0	2.0	2.3	2.3
Public 2-year	3.6	3.6	3.2	3.2	3.4	3.4
Private 2-year	‡	‡	‡	‡	11.3	11.3
Public 4-year	4.4	4.4	2.6	2.6	2.6	2.6
Private 4-year	4.3	4.3	3.3	3.3	2.8	2.8

[‡]Reporting standards not met; too few cases for a reliable estimate.



Table B-8. Standard errors for table 8. Among degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating the most frequent type of credit earned for remedial courses, by subject area and institutional type: Fall 1995 and 2000

		Read	ing			Writi	ng			Mathem	atics	
Year and	Degree	Degree	Institu-		Degree	Degree	Institu-		Degree	Degree	Institu-	
institutional type	credit,	credit,	tional	No	credit,	credit,	tional	No	credit,	credit,	tional	No
	subject	elective	credit	credit	subject	elective	credit	credit	subject	elective	credit	credit
2000												
All institutions	0.5	1.3	1.9	1.3	1.0	1.4	1.9	1.1	1.0	1.2	1.7	1.0
Public 2-year	0.9	1.0	2.2	1.6	0.9	1.3	2.3	1.6	0.9	1.1	2.3	1.6
Private 2-year	‡	‡	‡	‡	‡	‡	6.4	3.9	5.6	‡	5.9	3.5
Public 4-year	0.6	1.7	3.3	2.4	0.7	1.3	2.4	1.7	0.5	1.0	2.1	1.6
Private 4-year	1.2	4.5	4.7	3.7	3.0	4.0	4.3	2.5	2.9	3.6	3.7	1.7
1995												
All institutions	1.1	1.6	2.7	1.7	1.0	1.4	2.4	1.8	1.1	1.5	2.4	2.0
Public 2-year	0.6	1.8	2.7	2.2	0.6	1.8	2.6	2.2	0.6	1.7	2.5	2.5
Private 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡	2.3	11.0	9.0
Public 4-year	‡	3.4	4.5	2.8	2.9	2.7	3.8	2.6	‡	2.5	3.6	2.3
Private 4-year	‡	4.4	5.9	4.5	1.6	2.8	4.1	3.7	2.7	3.9	5.3	5.0

[‡]Reporting standards not met; too few cases for a reliable estimate.



Table B-9. Standard errors for table 9: Among degree-granting institutions that offered remedial courses, percent indicating that there is a limitation on the length of time a student may take remedial courses at the institution, and the percentage distribution indicating how the time limit on remediation is set, by institutional type: Fall 1995 and 2000

	Length of remediation	How ti	me limit on remediation is	set
Year and institutional type	is limited at institutions offering remedial courses	State policy or law	Institutional policy	Other
2000				
All institutions	1.5	2.8	3.7	1.5
Public 2-year	2.3	5.8	7.2	4.0
Private 2-year	8.1	‡	‡	‡
Public 4-year	2.2	3.2	3.1	‡
Private 4-year	2.9	‡	2.8	1.6
1995				
All institutions	2.0	3.3	3.5	1.2
Public 2-year	3.3	7.7	7.3	2.6
Private 2-year	10.8	‡	‡	‡
Public 4-year	3.7	2.6	2.6	†
Private 4-year	3.9	†	0.7	‡

[†]Not applicable; estimate of standard error is not derived because it is based on a statistic estimated at 0 percent.



[‡]Reporting standards not met; too few cases for a reliable estimate.

Table B-10. Standard errors for table 10: Among degree-granting institutions that offered remedial courses in the given subject, percentage distribution indicating the extent of restrictions on regular academic courses that students can take while taking remedial courses, by subject area: Fall 1995 and 2000

Year and subject area	No restrictions	Some restrictions	Totally restricted
2000			
Reading	1.8	1.8	0.2
Writing	1.2	1.2	0.2
Mathematics	1.2	1.2	0.2
1995			
Reading	2.8	2.7	0.8
Writing	1.9	1.9	0.6
Mathematics	2.1	2.1	0.7



percentage distribution indicating the location within the institution of the most frequent provider of remedial education, Standard errors for table 11: Among degree-granting institutions that offered remedial courses in the given subjects, by subject area and institutional type: Fall 1995 and 2000 Table B-11.

		Reading	ing			Writing	gu			Mathematics	atics	
Year and	Separate remedial	Traditional			Separate remedial	Traditional academic			Separate remedial	Traditional academic	_	
institutional type	division/	depart-	Learning		division/	depart-	Learning		division/	depart-	Leaming	
	department	ment(s)	center	Other	department	ment(s)	center	Other	department	ment(s)	center	Other
2000												
All institutions	1.5	1.9	1.3	9.0	1.2	1.5	8.0	0.5	1.0	1.5	6.0	0.5
Public 2-year	2.3	2.2	1.5	++	2.4	2.5	1.5	0.3	2.3	2.3	1.5	0.3
Private 2-year	++	++	++	++	5.5	8.9	5.5	5.5	++	6.9	++	++
Public 4-year	2.2	3.3	2.2	++	2.1	3.1	1.4	1.1	1.7	2.2	1.2	1.0
Private 4-year	3.8	5.3	4.8	++	2.3	2.5	1.8	9.0	2.1	2.4	1.9	++
1995												
All institutions	2.8	2.8	1.9	0.7	2.0	2.2	1.3	0.7	. 2.2	2.6	1.5	0.7
Public 2-year	3.3	3.5	2.1	1.0	3.1	3.3	2.1	1.0	3.1	3.4	2.1	1.0
Private 2-year	++	++	++	++	++	++	++	++	3.5	5.1	++	++
Public 4-year	4.3	4.3	1.7	1:1	3.1	3.6	1.8	6.0	3.0	3.4	1.7	8.0
Private 4-year	8.9	5.2	6.4	**	4.7	4.7	3.1	0:1	4.5	4.6	3.1	1.0

‡Reporting standards not met; too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1900," 2001.



Table B-12. Standard errors for table 12: Among Title IV degree-granting institutions that offered remedial courses in the given subjects, percentage distribution indicating how frequently computers are used by students as a hands-on instructional tool for on-campus remedial courses, by subject area and institutional type: Fall 2000

		Reading			Writing		N	Mathematics (
Institutional type	Never or very rarely	Occa- sionally	Fre- quently	Never or very rarely	Occa- sionally	Fre- quently	Never or very rarely	Occa- sionally	Fre- quently
All institutions	1.6	1.6	1.8	2.0	1.8	2.0	1.4	1.7	1.5
Public 2-year Private 2-year Public 4-year	1.9 ‡ 2.5	2.9 ‡ 2.8	2.5 ‡ 2.6	1.7 8.7 2.5	2.9 8.7 2.3	2.5 8.7 2.1	2.3 11.1 2.4	3.1 10.2 2.4	2.5 8.6 2.0
Private 4-year	4.8	4.0	4.0	6.5	5.1	3.3_	4.4	4.4	3.5

[‡]Reporting standards not met; too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.



Table B-13. Standard errors for the figures and for data not shown in tables: Fall 1995 and 2000

Item	Estimate	Standard error
Figure 1. Among Title IV degree-granting institutions that offered remedial courses		
in the given subjects, percentage distribution indicating various numbers of different		
remedial courses offered, by subject area: Fall 2000		
remediate courses offered, by subject area. Yan 2000		
Reading: 1 course	44	2.0
Reading: 2 courses	31	1.6
Reading: 3 or 4 courses	20	1.5
Reading: 5 or more courses	4	0.5
Writing: 1 course	49	1.6
Writing: 2 courses	29	1.5
Writing: 3 or 4 courses	18	1.1
Writing: 5 or more courses	5	0.8
Mathematics: 1 course	32	1.9
Mathematics: 2 courses	28	1.6
Mathematics: 3 or 4 courses	32	1.4
Mathematics: 5 or more courses	8	0.8
71		
Figure 2. Among degree-granting institutions that offered remedial courses in the		
given subjects, percentage distribution indicating various numbers of different remedial		
courses offered, by subject area: Fall 1995		
D (1)	41	2.2
Reading: 1 course	41	2.3
Reading: 2 courses	33	2.9
Reading: 3 or 4 courses	19	2.2
Reading: 5 or more courses	7	0.9
Writing: 1 course	54	1.9
Writing: 2 courses	25	1.6
Writing: 3 or 4 courses	15	1.4
Writing: 5 or more courses	6	0.8
Mathematics: 1 course	40	2.4
Mathematics: 2 courses	23	2.1
Mathematics: 3 or 4 courses	24	1.7
Mathematics: 5 or more courses	13	1.3
Figure 3. Among Title IV degree-granting institutions that offered remedial courses,		
percent indicating that they offered remedial courses in academic subjects other than		
reading, writing, or mathematics, by institutional type: Fall 2000 ¹		
All institutions	23	1.4
	37	3.0
Public 2-year		3.0 1.7
Public 4-year	15	1 /
rivate 4-year	11	2

See notes at end of table.



Table B-13. Standard errors for the figures and for data not shown in tables: Fall 1995 and 2000—Continued

Item	Estimate	Standard error
Figure 4. Among degree-granting institutions that offered remedial courses, percent		
indicating that they offered remedial courses in academic subjects other than reading,		
writing, or mathematics, by institutional type: Fall 1995		
writing, or mathematics, by institutional type. Fair 1995		
All institutions	25	2.0
Public 2-year	36	3.4
Private 2-year	10	4.1
Public 4-year	27	3.3
Private 4-year	14	3.2
Figure 5. Among Title IV degree-granting institutions that did not offer remedial		
courses, percent indicating the reasons they did not offer remedial courses: Fall 2000		
Remedial courses were not needed	59	4.:
Students who need remediation take it elsewhere	29	3.3
Institutional policy does not allow remedial courses	26	3.:
State policy or law does not allow remedial courses	8	1.3
Other reasons	15	2.9
Figure 6. Among degree-granting institutions that did not offer remedial courses,		
percent indicating the reasons they did not offer remedial courses: Fall 1995		
Remedial courses were not needed	66	4.8
Institutional policy does not allow remedial courses	27	4.
Students who need remediation take it elsewhere	22	5.:
State policy or law does not allow remedial courses	5	1.4
Other reasons	9	2.0
Figure 7. Percent of Title IV degree-granting institutions that provided remedial		
education services/courses to local business and industry, by institutional type: Fall 2000 ¹		
raii 2000		
All institutions	21	1.0
Public 2-year	56	2.9
Public 4-year	8	1.0
Private 4-year	3	0.8
Figure 8. Percent of degree-granting institutions that provided remedial education		
services/courses to local business and industry, by institutional type: Fall 1995 ¹		
All institutions	19	1.4
Public 2-year	50	2.9
Public 4-year	6	1.:
	4	1.0

See notes at end of table.



Table B-13. Standard errors for the figures and for data not shown in tables: Fall 1995 and 2000—Continued

Item	Estimate	Standard error
T' O A Tid. IV do not more that of and nomodial		
Figure 9. Among Title IV degree-granting institutions that offered remedial		
courses, percent indicating that the institution offered remedial courses through		
distance education, by institutional type: Fall 2000		
All institutions	13	1.0
Public 2-year	25	1.8
Private 2-year	#	†
Public 4-year	8	1.0
Private 4-year	4	1.1
Figure 10. Among degree-granting institutions that offered remedial courses, percent		
indicating that the institution offered remedial courses through distance education,		
by institutional type: Fall 1995 ²		
All institutions	3	0.5
Public 2-year	6	1.1
Public 4-year	4	1.4
Figure 11. Among Title IV degree-granting institutions that offered remedial		
courses through distance education, percent indicating the types of technology		
used as a primary mode of instructional delivery for the remedial courses offered		
through distance education: Fall 2000		
Two-way interactive video	26	4.1
One-way prerecorded video	27	4.4
Internet courses using synchronous computer-based instruction	25	3.7
Internet courses using asynchronous computer-based instruction	64	3.9
Other technologies	8	2.1
Chapter 2, section on reasons institutions do not offer remedial courses		
Percent of institutions that did not offer remedial courses in fall 2000 that had		
offered remedial courses during the previous 5 years	8	2.0

[†]Not applicable; estimate of standard error is not derived because it is based on a statistic estimated at zero percent.



¹Data for private 2-year institutions are not reported because there were too few cases for a reliable estimate.

²Data for private 2-year and private 4-year institutions are not reported because there were too few cases for a reliable estimate.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Postsecondary Education Quick Information System, "Survey on Remedial Education in Higher Education Institutions: Fall 1995," 1995; and "Survey on Remedial Education in Higher Education Institutions: Fall 2000," 2001.

APPENDIX C

QUESTIONNAIRES

1995 and 2000



U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS WASHINGTON, D.C. 20006-5651

REMEDIAL EDUCATION IN HIGHER EDUCATION INSTITUTIONS: FALL 2000

FORM APPROVED
O.M.B. No.: 1850-0733
EXPIRATION DATE: 07/2002

POSTSECONDARY EDUCATION QUICK INFORMATION SYSTEM

This survey is authorized by law (P.L. 103-382). While participation in this survey is voluntary, your cooperation is critical to make the results of this survey comprehensive, accurate, and timely.

Definition of Remedial Education Courses for Purposes of This Study:

Courses in reading, writing, or math for college students lacking those skills necessary to perform college-level work at the level required by your institution. Throughout this questionnaire, these courses are referred to as "remedial"; however, your institution may use other names such as "compensatory," "developmental," or "basic skills," or some other term. Please answer the survey for any courses meeting the definition above, regardless of name; however, do not include English as a second language (ESL) when taught primarily to foreign students. Do not include remedial courses offered by another institution, even if students at your institution take these courses.

Please answer for your regular undergraduate programs (except for question 13, which asks about services/courses to business and industry). Use data from your institutional records whenever possible. If exact data are not available, then give your best estimate.

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Laurie Lewis (716622)

Westat

1650 Research Boulevard

Rockville, Maryland 20850-3195

Laurie Lewis at Westat

800-937-8281, Ext. 8284 or 301-251-8284

Fax: 800-254-0984

Email: laurielewis@westat.com

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S Form No. 12, 6/2001

1.	Did your institution enroll any freshman students in fall 2000?			
	Yes	Complete re d return que	•	
2.	Did your institution offer any remedial reading, writing, or math courses (as defined of fall 2000?		Λ	ionnaire) in
	Yes	vith question	3.5	
3.	Which of the following are reasons that your institution did not offer any remedial coeach line.)	ourses in fall	2000? (Ci	Yes No
	 a. Remedial courses are not needed by students at this institution	oy another li	nstitution	1 2 1 2
	e. Other reason (specify)			1 2
4.	Has your institution offered any remedial courses during the last 5 years? (Circle on			tion 13a.)
	Yes 1 (Date last offered: No)	2	
5.	Enter information requested in Parts a-i for remedial courses in each subject area (reading, writing, or math) in which you have no remedial courses, enter "no" in part			se subjects
	Remedial course information	Reading	Writing	Math
	a. Did your institution offer remedial courses in this subject in fall 2000? (Enter yes or no.)			
	b. What was the number of remedial courses with different catalog numbers in fall 2000? (Do not count multiple sections of the same course.)	-		
	c. What is the most frequent type of credit earned from remedial courses? (Enter one.)			
	 1 = Degree credit, meets subject requirements 2 = Degree credit, elective only 3 = Institutional credit (e.g., counts toward financial aid, campus housing, or full-time student status) 4 = No credit 			
	d. What is the most frequent type of course requirement status for students needing remedial courses? (Enter one.)			
	1 = Required 2 = Recommended but not required			
	e. How are students usually selected for remedial courses? (Enter one.)			
	1 = All entering students are given placement tests to determine need for remediation 2 = Entering students who do not have SAT/ACT scores or who score below a certain level on the SAT/ACT or have a GPA below a certain level are given placement tests to determine need for remediation 3 = Entering students who score below a certain level on the SAT/ACT or have a GPA below a certain level are required or encouraged to enroll in remedial/developmental courses 4 = Faculty or staff refer students for enrollment in remedial/developmental courses			
0	5 = Students refer themselves for enrollment in remedial/developmental courses 6 = Other (specify)			



(continued)	
For those subjects (reading, writing, or math) for which you have no remedial courses, skip parts f through i belo	w.

	Remedial course information	Reading	Writing	Mat	h
f.	While students are taking remedial courses, are there any restrictions on the regular academic courses they can take? (Enter one.)				
	 1 = No restrictions on regular academic courses 2 = Some restrictions on regular academic courses (e.g., cannot take courses for which the remedial courses are a prerequisite) 3 = Totally restricted from taking regular academic courses 				
g.	Who most often provides remedial education? (Enter one.)	2'	120		
	1 = Separate remedial division/department 2 = Traditional academic department(s) 3 = Learning center 4 = Other (specify)		7		
h.	How frequently are computers used by students as a hands-on instructional tool for on-campus remedial education courses (e.g., for self-paced courses or drill and practice)? Do not include remedial courses offered through distance education. (Enter one.) 1 = Never or very rarely 2 = Occasionally 3 = Frequently				
i.	In fall 2000, about what percent of entering freshmen enrolled in any remedial courses in reading? writing? math? (Answer separately for each subject.)				
	ve your best estimate of the total, unduplicated percent of entering freshmen wheremedial writing or remedial math courses in fall 2000%	o enrolled ii	n any reme	dial rea	ading
or i	remedial writing or remedial math courses in fall 2000% s the number of students enrolled in remedial courses at your institution increcreased in the last 5 years? (Circle one number.)	eased, staye		ie sam	e, or
Ha dec	remedial writing or remedial math courses in fall 2000% s the number of students enrolled in remedial courses at your institution increcreased in the last 5 years? (Circle one number.) creased	eased, staye	ed about the	ie sam	e, or
Ha dec Inc	remedial writing or remedial math courses in fall 2000% s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) streased	eased, staye	ed about the ecreased	ie sam	e, or
Ha decorrection or in the correction of incorrection of incorrection or in the correction or in the correction of incorrection or in the correction or in the correction or in the correction or in	remedial writing or remedial math courses in fall 2000% s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) creased	pased, stayed, writing, or the control of the contr	ed about the ecreased math? 2 his survey,	ie sam	e, or . 3
Ha decorrection or in the decorrection of the	remedial writing or remedial math courses in fall 2000	pased, stayed, writing, or the contract of the	ecreased math? 2 his survey, ecorded), c	include	e, or . 3 e any outer
Ha decorrection of the text of	remedial writing or remedial math courses in fall 2000% s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) creased	pased, stayed, De la writing, or la writing, or la writing or presentation 11.) conal deliver	ed about the ecreased math? 2 his survey, ecorded), co	include or comp	e, or . 3 e any outer urses No
Ha decorrection or in the decorrection of the	s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) steased	pased, stayed, writing, or the corporation 11.) conal delivergents, and	ed about the ecreased math? 2 his survey, ecorded), co	include r comp	e, or . 3 e any outer
Ha decorrection Do Yes Dictorection Yes Who office a.	s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) creased	De pased, stayed, writing, or the corporate or presentation 11.) conal deliver the construction of the con	ed about the ecreased math? 2 his survey, ecorded), co	include or comp dial cou	e, or . 3 e any outer urses No 2
Haded Inco	s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) sreased	Deased, stayed, writing, or the corporate or prendents, and based instruments.	ed about the ecreased math? 2 his survey, ecorded), co	include or comp dial cou	e, or . 3 e any outer urses No 2
Haded Inco	s the number of students enrolled in remedial courses at your institution increased in the last 5 years? (Circle one number.) reased	De pased, stayed, writing, or the corporate of the presentation 11.) conal delivery the corporate of the cor	ed about the ecreased math? 2 his survey, ecorded), co	include or comp Yes 1 1	e, or . 3 e any outer urses No 2



11.	On average, about how long does a student take remedial courses? (Circle one number.)		
	Less than 1 year (e.g., 1 semester or 2 quarters)	2	
12a.	. Is there a limit on the length of time a student may take remedial courses at your institution?	, <\	
	Yes	to questi	on 13a.)
12b.	. How is the time limit on remediation set? (Circle one number.)		
	State policy or law	1 0 2 3	
13a.	. Does your institution provide remedial education services/courses to local business and industry)	
	Yes		
13b.	. What subject areas are covered in these services/courses? (Circle one on each line.)	Yes	No
	a. Reading b. Writing c. Math d. Other (specify)	1 1 1 1	2 2 2 2 2
13c.	. What is the location of these services/courses? (Circle one on each line.)		
	a. On the campus of this institution	Yes 1 1 1	No 2 2 2 2

THANK YOU FOR YOUR ASSISTANCE. PLEASE KEEP A COPY OF THIS SURVEY FOR YOUR RECORDS.



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U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS WASHINGTON, D.C. 20208-5651

FORM APPROVED O.M.B. No.: 1850-0721 **EXPIRATION DATE: 12/96**

REMEDIAL EDUCATION IN HIGHER EDUCATION INSTITUTIONS

POSTSECONDARY EDUCATION QUICK INFORMATION SYSTEM

This survey is authorized by law (20 U.S.C. 1221e-l). While participation in this survey is voluntary, your cooperation is critical to make the results of this survey comprehensive, accurate, and timely.

Definition of Remedial Education Courses for Purposes of This Study:

Courses in reading, writing, or math for college students lacking those skills necessary to perform college-level work at the level required by your institution. Throughout this questionnaire, these courses are referred to as "remedial"; however, your institution may use other names such as "compensatory," "developmental," or "basic skills," or some other term. Please answer the survey for any courses meeting the definition above, regardless of name; however, do not include English as a second language (ESL) when taught primarily to foreign students. Do not include remedial courses offered by another institution, even if students at your institution take these courses.

Please answer for your regular undergraduate programs (except for question 17, which asks about services/courses to business and industry). Use data from your institutional records whenever possible. If exact data are not available, then give your best estimate.

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Laurie Lewis at Westat 1-800-937-8281, Ext. 8284 or 1-301-251-8284 8:00 a.m. - 4:00 p.m., Eastern time zone

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PEQIS Form No. 6, 10/95

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1.	Does your histitution enfort any resuman students:						
	Yes	2		aplete respon questionnaire		on front	
2.	Does your institution offer any remedial reading, writing, or	math cour	rses (as defin	ed on the fror	nt of this que	stionnaire)?
	Yes 1 (Skip to question 5.) No	2	(Continue v	with question	3.)		
	Which of the following are reasons that your institution does	not offer	any remedial	courses?	Tircle one on	each line.	
	 a. Remedial courses are not needed by students at this institute. b. Students at this institution who need remediation take remediated remediation to offer red. Institutional policy does not allow this institution to offer red. Other reason (specify) 	edial cour emedial c emedial c	ses offered by oursesourses	y another inst	titution	1 2 1 2 1 2 1 2 1 2	
	Has your institution offered any remedial courses during the	last 5 year	rs? (Circle o	ne and then s	skip to questi	ion 16.)	
	Yes	ses in eac	Noh subject arer"no" in Pa	ea in fall 19	95 . For tho Parts b-i.	se subject	S
	Remedial course information	1	\mathcal{Y}	Reading	Writing	Math	_
	a. Did your institution offer remedial courses in this subject in (Enter yes or no.)	n fall 1995	5?				_
	b. What was the number of remedial courses with different ca fall 1995? (Do not count multiple sections of the same court	/ -	ibers in				_
	c. What is the most frequent type of credit earned from remed (Enter one.) 1 = Degree credit, meets subject requirements 2 = Degree credit, elective only 3 = Institutional credit (e.g., counts toward financial aid, or full-time student status) 4 = No credit						
	d. What is the most frequent type of course requirement status remedial courses? (Enter one.)	s for stude	ents needing				_
	1 = Required; 2 = Recommended but not required						
	e. How are students usually selected for remedial courses? (It is a first a student of the students are given placement tests to determine the students who do not have SAT/ACT scores of a certain level on the SAT/ACT or have a GPA below are given placement tests to determine need for remedial are given placement tests to determine need for remedial are given placement tests to determine need for remedial are required or entermined and the students who score below a certain level on the score and the students who score below a certain level or entermined are required or entermined to the students are required or entermined to students are students for entermined to the score are students for entermined to students refer themselves for entermined to the students are students for entermined to students refer themselves for entermined to the students are students for entermined to students refer themselves for entermined to the students are students.	or who scor a certain liation the SAT/Ancouraged	ed ore below level ACT				
	developmental courses 6 = Other (specify)						_



Remedial course information	Reading	Writing	Ma
f. While students are taking remedial courses, are there any restrictions on	Treating		1,1
the regular academic courses they can take? (Enter one.)			
1 = No restrictions on regular academic courses			
 2 = Some restrictions on regular academic courses 3 = Totally restricted from taking regular academic courses 			
		2	
g. Who most often provides remedial education? (Enter one.)			
1 = Separate remedial division/department			
2 = Traditional academic department(s)		// //	
3 = Learning center			
4 = Other (specify)	-		
h. In fall 1995, about what percent of entering freshmen enrolled in any remedial			
courses in reading? writing? math? (Answer separately for each subject.)			
i. In general, about what percent of students enrolled in remedial courses pass or			
successfully complete the remedial courses? (Enter for each subject.)			
Give your best estimate of the total, unduplicated percent of entering freshmen wh	no enrolled in a	ny remedia	al readi
remedial writing or remedial math courses in fall 1995.	\bigcirc		
Has the number of students enrolled in remedial courses at your institution in	ncreased stave	ed about th	ne sam
decreased in the last 5 years? (Circle one number.)	nereasea, staye	a about u	ic sain
Increased	Decreased.		
Stayed about the same	Decreased.	••••••	•••••
About what percent of all 1994-95 full-time entering freshmen continued at your	institution to th	ne start of	their se
year (1995-96)?%			
About what percent of 1994-95 full-time entering freshmen who enrolled in any institution to the start of their second year (1995-96)?			iued at
Does your institution offer remedial courses in academic subjects other than reading	g, writing, or m	ath?	
Yes 1 (specify subject(s)	_) No	2	
XXII 1			
When does your institution offer remedial courses? (Circle one on each line.)		Vac	No
When does your institution offer remedial courses? (Circle one on each line.)		Yes	No
a. Day time		Yes 1	2
a. Day time		_	2 2
a. Day time b. Evenings c. Weekends		_	2 2 2
a. Day time b. Evenings c. Weekends d. Summer session		1	2 2 2 2
a. Day time b. Evenings c. Weekends		1 1 1	2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify)		1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV		1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify)		1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV Yes	/ broadcast or c	1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV Yes	/ broadcast or c	1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV No	/ broadcast or c	1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV Yes	/ broadcast or c	1 1 1 1	2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV No	offerings?	1 1 1 1 1 able)?	2 2 2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV No	offerings?	1 1 1 1 2 able)?	2 2 2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV Yes	/ broadcast or conferings?	1 1 1 1 1 rable)?	2 2 2 2 2 2
a. Day time b. Evenings c. Weekends d. Summer session e. Other (specify) Does your institution offer any remedial courses through distance learning (e.g., TV No	offerings?	1 1 1 1 1 able)?	2 2 2 2 2 2



13.	On average, about how long does a student take remedial courses? (Circle one number.)		
	Less than 1 year (e.g., 1 semester or 2 quarters)		
	More than 1 year		
14a.	Is there a limit on the length of time a student may take remedial courses at your institution?		
	Yes 1 (Length of time:) No 2 (Skip to ques	tion [5a.)	
14b.	How is the time limit on remediation set? (Circle one number.)		
	State policy or law Institutional policy Other (specify)	2 3)
15a.	Does your institution have any formal arrangements to offer remedial courses to students from institutions?	om other po	ostsecondary
	Yes		
15b.	With what types of institutions do you have such arrangements? (Circle one on each line.)	· Yes	No
	a. Public 4-year college or university b. Private 4-year college or university c. Public 2-year college d. Private 2-year college e. Other (specify)	1	2 2 2 2 2
16a.	Does your institution offer any English as a second language (ESL) courses for college students?		
	Yes 1 No		
16b.	Does your institution consider these ESL courses to be remedial courses? (Circle one number.)		
	All ESL courses are considered remedial. Some ESL courses are considered remedial. No ESL courses are considered remedial.	3	
17a.	Does your institution provide remedial education services/courses to local business and industry? Yes		
17b.	What subject areas are covered in these services/courses? (Circle one on each line.)		
		Yes	No
	a. Reading.	_	2
	b. Writing	_	2
	c. Math	1	2
	d. Other (specify)	1	2.
17c.	What is the location of these services/courses? (Circle one on each line.)	Yes	No
	a. On the campus of this institution	1	2
	b. At business/industry sites	_	2
	c. Offered through distance learning		2
	d. Other (specify)	1	2
	. =		

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